CONSTRUCTION NEWS

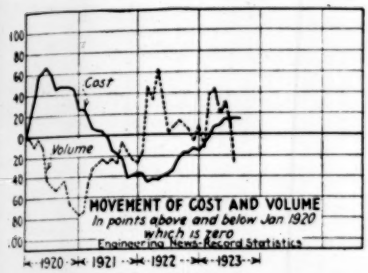
Engineering News-Record, September 27, 1923

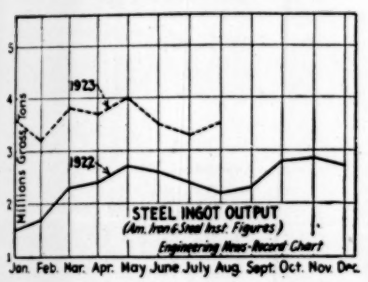
The Construction Barometer

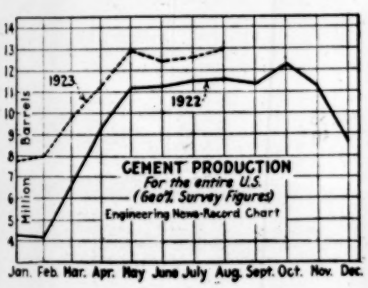
Drop in Unfilled Tonnage—Fewer Bank Debits—Buyers Cautious

THAT conditions in the basic industries are not uniform is evinced by conflicting production trends in several of the principal commodities. Increases are noted in the output of steel ingots, cement, automobiles and footwear. Decreases occurred in pig iron and cotton textiles.

Falling off in debits to individual accounts (Federal Reserve figures) together with a drop in unfilled steel tonnage (U. S. Steel Corporation) and a decided decrease in volume of construction (*E. N-R.* Index), despite stable cost indicate caution among buyers as well as seasonal declines.


Cost
Volume
MOVEMENT OF COST AND VOLUME
In points above and below Jan 1920 which is zero
Engineering News-Record Statistics
1920 1921 1922 1923


Millions Gross Tons
1923
1922
STEEL INGOT OUTPUT
(Am. Iron & Steel Inst. Figures)
Engineering News-Record Chart
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.



Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Sept. 6	$28,163,000	$17,205,000	$45,368,000
Sept. 13	27,304,000	21,935,000	49,239,000
Sept. 20	13,016,000	19,333,000	32,349,000
3 Weeks	$68,483,000	$58,473,000	$126,956,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

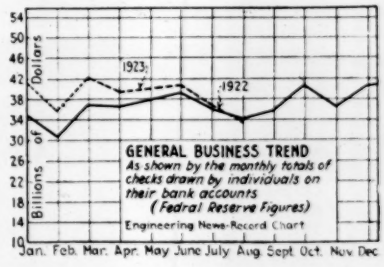
Week Ended	Public Work No.	Public Work	Private Work No.	Private Work
Sept. 6	16	$9,563,000	16	$8,019,000
Sept. 13	9	2,955,000	30	13,607,000
Sept. 20	7	1,181,000	35	16,913,000
3 Weeks	32	$13,699,000	81	$38,539,000

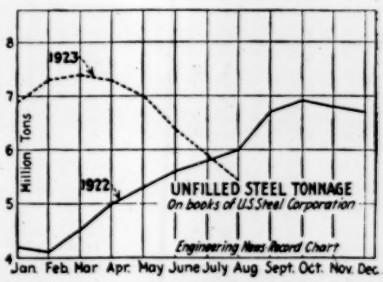
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

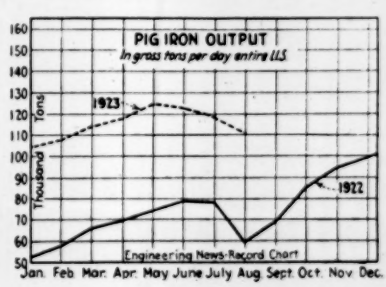
Week Ended	Private	Public All	Public Streets and Roads	Public Waterworks and Sewers	Public All Buildings
Sept. 6	35	197	83	32	48
Sept. 13	36	178	67	39	36
Sept. 20	35	179	51	35	37

FIR TIMBERS HIGHER—OTHER BASIC MATERIALS UNCHANGED

	Quoted on Sept. 27, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50	@2.60	June 21
Cement, Chi., net bbl.	2.20	2.05	Feb. 1
Pine, N. Y., M. ft.	61.00	63.00	Sept. 6
Fir, San Fran., M. ft.	42.00	38.00	Sept. 20
Common labor	.54	.53	June 28


Billions of Dollars
1923
1922
GENERAL BUSINESS TREND
As shown by the monthly totals of checks drawn by individuals on their bank accounts
(Federal Reserve Figures)
Engineering News-Record Chart
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


Million Tons
1923
1922
UNFILLED STEEL TONNAGE
On books of U.S. Steel Corporation
Engineering News-Record Chart
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


PIG IRON OUTPUT
In gross tons per day entire U.S.
Thousand Tons
1923
1922
Engineering News-Record Chart
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close			See Eng. News-Record
Oct.	1	Montreal, Que.	Sept. 27
Oct.	2	Wallington, N. J.	Sept. 13
Oct.	2	Leland, Miss.	Sept. 27
Oct.	2	Bayonne, N. J. Adv. Sept. 27.	Sept. 27
Oct.	2	Los Angeles, Calif.	Sept. 27
Oct.	2	Keansburg, N. J. Adv. Sept. 27.	Sept. 27
Oct.	3	Portland, Ore.	Sept. 13
Oct.	4	Stoneham (Boston P. O.), Mass.	Sept. 13
Oct.	5	New Bedford, Mass. Adv. Sept. 20 and 27.	Sept. 20
Oct.	5	Ellenville, N. Y.	Sept. 27
Oct.	8	Milbank, S. D.	Sept. 20
Oct.	9	Toronto, Ont.	Sept. 13
Oct.	9	Kings Mountain, N. C. Adv. Sept. 13 to 27.	Sept. 20
Oct.	10	Lewiston, Idaho	Sept. 20
Oct.	10	Elyria, O. Adv. Sept. 27.	Sept. 27
Oct.	11	Danville, Va. Adv. Sept. 13 to 27.	Sept. 13
Oct.	23	Buffalo, N. Y. Adv. Sept. 20 and 27.	Sept. 20
Oct.	26	Tulsa, Okla. Adv. Sept. 27.	Sept. 27

SEWERS

Bids Close			See Eng. News-Record
Oct.	1	Perth Amboy, N. J. Adv. Sept. 20 and 27.	Sept. 20
Oct.	1	Euclid, O	Sept. 27
Oct.	1	Crystal Springs, Miss.	Sept. 27
Oct.	2	Leland, Miss.	Sept. 27
Oct.	2	Asbury Park, N. J.	Sept. 27
Oct.	3	Baltimore, Md.	Sept. 27
Oct.	8	Brighton, N. Y. Adv. Sept. 27.	Sept. 27
Oct.	9	Bluefield, W. Va.	Sept. 13
Oct.	9	Roxboro, N. C.	Sept. 20
Nov.	1	Fort Erie, Ont.	Aug. 23

BRIDGES

Bids Close			See Eng. News-Record
Oct.	1	Salina, Calif.	Sept. 20
Oct.	2	Mermentau, Mich.	Aug. 30
Oct.	2	Johnstown, Pa.	Sept. 13
Oct.	2	Louisiana	Sept. 13
Oct.	3	West Palm Beach, Fla.	Sept. 27
Oct.	4	Lancaster, S. C.	Sept. 20
Oct.	8	Portland, Ore.	Sept. 27
Oct.	8	Okemos, Mich.	Sept. 27
Oct.	9	Alabama	Sept. 20
Oct.	9	Indianola, Ia.	Sept. 27
Oct.	10	Wheeler, S. D. Adv. Sept. 20 and 27.	Sept. 20
Oct.	10	North Carolina	Sept. 27
Oct.	11	Louisiana	Sept. 20
Oct.	11	Germfask, Mich.	Sept. 27

Bids Close		See Eng. News-Record
Oct. 11	Wilkes Barre, Pa. Adv. Sept. 27.	Sept. 27
Oct. 12	Wilkes Barre, Pa. Adv. Sept. 27.	Sept. 27
Oct. 16	Clearwater, Fla.	Sept. 13
Oct. 16	Fishkill, N. Y. Adv. Sept. 27.	Sept. 27
Oct. 16	Williamson, W. Va. Adv. Sept. 27.	Sept. 27
Oct. 22	Portland, Ore. Adv. Sept. 27.	Sept. 27
Oct. 23	Mobridge, S. D. Adv. Sept. 27.	Sept. 27
Oct. 26	Centerville, Tex.	Sept. 27
Nov. 30	Sydney, Australia	Apr. 19

RAILWAYS

Oct. 3	California	Sept. 13
Mar. 18	New Zealand Adv. Sept. 20 and 27.	Sept. 20

EXCAVATION, DRAINAGE IRRIGATION

Oct. 2	Madison, Wis.	Sept. 20
Oct. 2	Corydon, Ia.	Sept. 27
Oct. 5	Hamilton, Mont. Adv. Sept. 20 and 27.	Sept. 20
Oct. 8	Mason City, Ia.	Sept. 27
Oct. 9	Clarksdale, Miss.	Sept. 27
Oct. 10	Elkhorn, Wis.	Sept. 20
Oct. 12	Mason City, Ia.	Sept. 27
Oct. 15	Toronto, Ont.	Sept. 27

STREETS AND ROADS

Oct. 1	Water Valley, Miss.	Sept. 20
Oct. 1	Jacksonville, Fla.	Sept. 20
Oct. 1	Michigan	Sept. 27
Oct. 1	Clayton, Mo.	Sept. 27
Oct 2	St. Louis, Mo.	Sept. 6
Oct. 2	Cherokee, Ia.	Sept. 27
Oct. 2	Columbus, O.	Sept. 27
Oct. 2	Oilton, Okla.	Sept. 27
Oct. 2	Phila., Pa.	Sept. 27
Oct. 2	Avon Park, Tex.	Sept. 27
Oct. 2	Massachusetts	Sept. 27
Oct. 3	Michigan	Sept. 20
Oct. 3	West Palm Beach, Fla.	Sept. 27
Oct. 4	Vermont Adv. Sept. 27.	Sept. 27
Oct. 4	New Hampshire	Sept. 27
Oct. 5	Topeka, Kan.	Sept. 20
Oct. 5	New York Adv. Sept. 27.	Sept. 27
Oct. 5	Lexington, Miss.	Sept. 27
Oct. 5	Oberlin, Kan.	Sept. 27
Oct. 5	Atlanta, Ga.	Sept. 27
Oct. 8	Michigan	Sept. 27
Oct. 8	San Diego, Calif.	Sept. 27
Oct. 8	South Pasadena (Pasadena P. O.), Calif.	Sept. 27
Oct. 9	Alabama	Sept. 20
Oct. 9	Barstow, Tex.	Sept. 20
Oct. 10	Belvidere, N. J. Adv. Sept. 20 and 27.	Sept. 20
Oct. 10	North Carolina Adv. Sept. 27.	Sept. 27
Oct. 11	Louisiana	Sept. 20
Oct. 11	Little Rock, Ark.	Sept. 27
Oct. 11	Virginia Adv. Sept. 27.	Sept. 27
Oct. 12	Michigan	Sept. 27
Oct. 15	Weston, W. Va.	Sept. 20
Oct. 15	Michigan	Sept. 27
Oct. 15	Lexington, Miss.	Sept. 27
Oct. 16	Clearwater, Fla.	Sept. 13
Oct. 17	Meadville, Miss.	Sept. 27
Oct. 18	Houston, Tex.	Sept. 27
Oct. 18	Hemphill, Tex.	Sept. 27
Oct. 19	Marion, Kan.	Sept. 27
Oct. 19	Paris, Tex.	Sept. 27
Oct. 22	Norton, Kan.	Sept. 27
Oct. 23	Kentucky	Sept. 27

INDUSTRIAL WORK

Oct. 6	Baltimore, Md.	Sept. 27
Oct. 9	Louisville, Ky.	Sept. 20
Oct. 10	Wilmington, N. C.	Sept. 27
Oct. 10	Quebec, Que.	Sept. 27

BUILDINGS

Oct. 1	Memphis, Tenn.	Sept. 6
Oct. 1	Jackson, Miss.	Sept. 27
Oct. 1	Flint, Mich.	Sept. 27
Oct. 1	Cleveland, O.	Sept. 27
Oct. 1	Providence, R. I.	Sept. 27
Oct. 2	Upper Flushing (Flushing P. O.), N. Y.	Sept. 20
Oct. 2	Flushing, N. Y.	Sept. 20
Oct. 2	Waukesha, Wis.	Sept. 27
Oct. 3	Buffalo, N. Y.	Sept. 20
Oct. 4	Duluth, Minn.	Sept. 27
Oct. 4	Winchester, Ky.	Sept. 27
Oct. 4	Woodbury, N. J.	Sept. 27
Oct. 6	Hot Springs, Ark.	Sept. 27
Oct. 8	Wichita, Kan.	Sept. 6
Oct. 8	Fayetteville, N. C.	Sept. 20
Oct. 8	Syracuse, N. Y.	Sept. 20
Oct. 9	Louisville, Ky.	Sept. 13
Oct. 9	Trenton, N. J.	Sept. 20
Oct. 9	Bowling Green, O.	Sept. 27
Oct. 10	Birmingham, Ala.	Aug. 30
Oct. 10	Virginia, Minn.	Sept. 13
Oct. 15	Cleveland, O.	Sept. 20
Oct. 15	Waseca, Minn.	Sept. 20
Oct. 15	Bakersfield, Calif.	Sept. 27
Oct. 16	Bridgeport, Conn.	Sept. 27
Oct. 20	Louisville, Ky.	Sept. 13
Oct. 24	Marion, Ia.	Sept. 27
Nov. 1	Ft. Worth, Tex.	July 12
Nov. 1	Dallas, Tex.	Aug. 2

FEDERAL GOVERNMENT WORK

Oct. 1	Repairs to Roof — Phila., Pa.	Sept. 20
Oct. 3	Gates, Hoists, etc.—Denver, Colo.	Sept. 6
Oct. 3	Superstructure — Dunkirk, N. Y. Adv. Sept. 6 to 27.	Sept. 6
Oct. 3	Extension—Niagara Falls, N. Y.	Sept. 27
Oct. 4	Recreation Building, etc. — Wash., D. C. Adv. Sept. 13 to 27.	Sept. 13
Oct. 4	Road—Wyoming	Sept. 27
Oct. 8	Extension, etc.—Waterloo, Ia.	Sept. 20
Oct. 10	Garage, etc.—Bar Harbor, Me.	Sept. 20
Oct. 15	Breakwater—Hilo, H. T. Adv. Aug. 23 to Sept. 27.	Aug. 23
Oct. 15	Dredging—Los Angeles, Calif.	Sept. 27
Oct. 16	Buildings, etc.—North Little Rock, Ark. Adv. Sept. 20 and 27.	Sept. 20
Oct. 16	Mechanical Equipment—Carville, La.	Sept. 20
Oct. 16	Buildings—Carville, La. Adv. Sept. 20 and 27.	Sept. 20
Oct. 17	Dredging — Bridgeport, Conn. Adv. Sept. 20 and 27.	Sept. 20
Oct. 17	Post Office—Dawson, Ga. Adv. Sept. 20 and 27.	Sept. 20
Oct. 17	Radio Masts—Puget Sound, Wash.	Sept. 20
Oct. 17	Discharge Ponton—Rock Island, Ill. Adv. Sept. 27.	Sept. 27
Oct. 18	Dwellings — Newburg, Ind. Adv. Sept. 20 and 27.	Sept. 20
Oct. 18	Road—Florida	Sept. 27
Oct. 20	Pontoons, etc.—Cincinnati, O. Adv. Sept. 20 and 27.	Sept. 20
Oct. 26	Dredging, etc.—Port Chester, N. Y. Adv. Sept. 27.	Sept. 27
Nov. 1	Pipe Line Dredge—Chicago, Ill.	Sept. 6
Nov. 1	Catamarans, etc.—Chicago, Ill. Adv. Sept. 20 and 27.	Sept. 20
Nov. 7	Extension—Pearl Harbor, H. T.	Sept. 20
Nov. 14	Storehouse—Pearl Harbor, H. T.	Sept. 27
Nov. 30	Dam—Quebradillas, P. R. Adv. Sept. 27.	Sept. 27

MISCELLANEOUS

Sept. 28	Railroad Duct Line—New York, N. Y.	Sept. 20
Sept. 30	Fill—Salisbury Beach (Newburyport P. O.), Mass. Adv. Sept. 20 and 27.	Sept. 20
Oct. 1	Gravel—Baton Rouge, La.	Sept. 13
Oct. 1	Tunnel—Hood River, Ore.	Sept. 27
Oct. 2	Wharf—Harrop, B. C.	Sept. 13
Oct. 2	Subway—Brooklyn, N. Y.	Sept. 20
Oct. 3	Steel Castings—St. Louis, Mo.	Sept. 27
Oct. 4	Locomotive and Car Bolsters, etc.—St. Louis, Mo.	Sept. 27
Oct. 4	Mud Shell—Houston, Tex.	Sept. 27
Oct. 4	Transmission Line—St. Paul, Kan.	Sept. 27
Oct. 6	Volt Insulators—Melbourne, Australia	Aug. 16
Oct. 9	Ornamental Lighting System —Bexley (Columbus P. O.), O.	Sept. 27
Oct. 15	Gravel—Kountze, Tex.	Sept. 27
Feb. 28	Headworks — Wellington, New Zealand	May 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Connecticut — South Manchester Water Co. plans laying 10 mi. c.i. pipe (various sizes), from dam in Buckingham to South Manchester and Manchester. Cost to exceed $100,000.

N. Y., Silver Creek—Plans new reservoir. $30,000. Engineer not selected.

N. C., Goldsboro—City Council authorized $60,000 bond issue enlarging waterworks by 1 m.g. capacity, will also include several miles water and sewer lines, etc.

Tenn., Gallatin—Election soon to vote on $35,000 bonds for filtration plant.

O., Columbus—See "Streets and Roads."

Ill., Metropolis—Having preliminary plans prepared for water works plant, equipment and distribution mains; modernization of electric light plant and transmission system. $100,000. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs.

Wis., Green Bay—Making plans replacing present steam boiler equipment in Municipal pumping station with gas engine and electric motor equipment, incl. new pumps, etc. $75,000. A. E. Kringle, City Hall, engr.

Ia., Albia—Making plans and will let contract early in October for impounding dam, storage reservoir, pumping station and filtration plant. $80,000. Bonds voted for project. Brown & Cook, Uttumwa, engrs.

Ia., Washington—Voted $80,000 bonds for waterworks improvements, incl. 200,000 gal. elevated steel tank, complete new pumping station, motor driven pumps, wells, etc. A. L. Mullergren, Gates Bldg., Kansas City, Mo., engrs. Noted Aug. 30.

Kan., Goff — Voted $25,000 bonds for waterworks. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, Mo., engrs. Noted Aug. 16.

Kan., Wichita—Plans addition to water plant. City appropriated $10,000 to be used for engineering fee. E. S. Worrell, city clk. Engineer not selected.

S. D., Watertown—Municipal Utilities Comn. rejected bids Aug. 29, waterworks improvements, filter, pump and pipe equipment for pumping station and filter house. Noted July 26.

Neb., Snyder—Voted $25,000 bonds for water system. W. Reese, city clk.

Mo., Greenfield — Voted $64,000 bonds waterworks plant and distribution mains, also 11,000 ft. sanitary sewers and disposal plant. Engineer not announced. Noted July 26.

Mo., Ironton—Having preliminary plans prepared pumping plant, reservoir, distribution mains, etc. Election soon to vote on $40,000 bonds. J. D. Davis, Jefferson City, engr.

Mo., Odessa—Voted $15,000 bonds 3,500 ft. 8-12 in. distributing mains. Noted Sept. 6.

Mo, Ridgway — Voted $45,000 bonds pumping plant, reservoir, distribution mains, etc. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs. Noted Sept. 6.

Mo., Thayer—Oct. 2, to vote on bonds for distribution system, pumping plant, reservoir, etc. $55,000. R B. Alexander, 535 Benton St., Kansas City, engr. Noted Aug. 9.

Tex., Kerrville—Plans new pumping unit and well. $15,000.

Okla., Cheyenne—Election soon to vote on $25,000 bonds for waterworks system incl. well, mains, pumps, etc. E. W. Baker, First Natl. Bank Bldg., Oklahoma City, engr.

Okla., Lawton—Oct. 3, to vote on $15,000 bonds for 8,000 ft. of 10 in. c.i. pipe around industrial section of city. E. M. Montain, city engr.

Okla., Owasso—Election soon to vote on $25,000 bonds for waterworks system. Hotway Eng. Co., 5050 Wright Bldg., Tulsa, engrs. Noted Aug. 23.

Okla., Sulphur—Takes bids about Oct. 1, waterworks extension. $50,000. E. T. Archer & Co., 609 New England Natl. Bank Bldg., Kansas City, Mo., engrs. Noted Aug. 30.

Okla., Terlton—Sept. 25, to vote on $20,000 bonds waterworks system, tower, well

Waterworks (Continued)

and pump. F. B. King, 409 West 11th St., Oklahoma City, engr.

Ont., Ford—Essex Border Utilities Comn. having plans prepared and takes bids about Nov. 1, filtration plant. $150,000. J. C. Keith, 300 Ouellette Ave., Windsor, engr.

Que., Montreal—Plans 15,216 ft. 8 and 10 in. c.i. mains in Bernard, Crevier, Delanaudiere, Des Encores, Milton, Poupart, Valois and Sackville Sts., $61,048, also 3,424 ft. 2 x 3 brick sewers in Hopper, Bocage, Woodland, Rochland and Springland Sts., $21,154. E. Gauthier, asst. city clk.

BIDS DESIRED

N. Y., Ellenville — Oct. 5, by Village Trustees at office of C. G. Fischer, clk., new outlet for Maratanza Lake, incl. open channels, tunnels, manholes, pipe and fittings, and 8 in. supply piping for waterworks system. H. W. Taylor, 149 Bway., New York, engr.

N. J., Bayonne—Oct. 2 by Bd. Comrs., furnishing c.i. B. & S. pipe and fittings for Water Dept. W. Lee, clk.; adv. E. N.-R., Sept. 27.

N. J., Keansburg—Oct. 2, by H. E. Cowley, boro clk., small section of proposed new water supply system, and paving Palmer Ave. Alexander Potter, 50 Church St., New York City, consult. engr.; adv. E. N.-R. Sept. 27.

Miss., Leland—Oct. 2, by J. T. Mathis, mayor and Bd. Alderman, furnishing 13,640 ft. 6-12 in. standard hub and spigot, Class B c.i. or c.i. pipe manufactured by Centrifugal process or other c.i. pipe of equal quality and strength, etc., f.o.b. Leland. F. A. Phillips, supt. water and light system.

O., Columbus—See "Streets and Roads."

O., Elyria — Oct. 10, by Director Pub. Serv., excavation, hauling and laying 5,000 lin.ft., and excavation, hauling, furnishing and laying 1,350 lin.ft. steel pipe. Morris, Knowles Inc., 662 Hanna Bldg., Cleveland, engrs.; adv. E. N.-R. Sept. 27.

O., New Concord — Sept. 26, by M. W. Taylor, clk. Bd. Trustees, constructing c.i. mains in Main St., 4,400 ft. 8 in. 2,670 ft. 6 in. and 4,290 ft. 4 in. pipe. Former bids rejected. Jennings-Lawrence Co., 511 Hartman Bldg., Columbus, engrs.

Wis., Fond du Lac—St. Agnes Hospital, c/o M. Marcella, superior general, 309 Division St., taking bids on 150 ft. rein.-con. stack, 70,000 gal. concrete reservoir, silo, 24 ft. diam., 40 ft. high, and considerable tunnel work. Private plans.

Minn., Staples—Sept. 25, by city, 1 deep well motor-driven pump. Noted Apr. 26.

Minn., St. Paul—Sept. 25, by H. W. Austin, city purch. agt., c.i. valve and service connection boxes required by Bureau of Water.

Tex., Edinburg—See "Excavation, Drainage, Irrigation."

Tex., Lampasas—Oct. 1, by Mayor, 18,000 ft. mains. $20,000.

Okla., Tulsa—Oct. 26, by Water Comn., constructing portion Spavinaw Water Supply Project, Contrs. 14, 15 and 16, A. J. Rudd, chn. J. D. Trammell and W. R. Holway. 508 Wright Bldg., engrs. D. H. Maury, 1445 Monadnock Blk., Chicago, consult. engr.; adv. E. N.-R. Sept. 27. Noted Aug. 23.

Calif., Los Angeles—Oct. 2, by Pub. Serv. Comn., furnishing 20,000 pieces 4 in. c.i. pipe, 10,000 pieces 6 in., 1,000 pieces 8 in. and 650 pieces 12 in., all 12 ft. lengths, Spec. 687-C.

Calif., Montecito — Montecito Co. Water Dist. receiving bids DeLaVaud centrifugal type pipe for distributing system. $110,000.

Que., Acton Vale—G. Ouimet, engr., 76 St. Gabriel St., Montreal, taking bids 2,450 ft. 12 in. c.i. pipe for town.

Que., Montreal — Oct. 1, by Executive Comn., City Hall Annex, 495 lengths 20 in. and 430 lengths 16 in. c.i. pipe. R. Bauset, city clk.

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Sept. 19, mains and appurtenances in (1) Bath, Cropsey, Emmons and 14th Aves., Mackenzie, Norfolk and Oxford Sts., Glenwood Rd. and Shore Blvd. (2) Bedford, Lincoln, Sutter and 15th Aves., 58th, 62nd, 66th, 67th, 70th, East 3rd, East 5th, East 7th, East 8th, East 9th, East 10th, East 12th, East 28th, East 95th, West 10th, Jerome and Osborn Sts., Parrott Pl., Kings Highway and Sheepshead Bay Rd., from Wataga Contg. Co., (1) $133,300 (2) $29,300. Noted Sept. 13.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Sept. 18, laying mains and appurtenances in Aqueduct Ave. West, Davidson, Gouverneur, Orloff, Riverdale, Sedgwick, Tyndall and Van Cortlandt Aves., East 178th, East 193rd, West 235th and 254th St., Grand Concourse and Mosholu Parkway south, from Wattega Contg. Co., $29,300; in Allerton, Benedict, Bruner, Edison, Ely, Fenton, Grace, Gunther, Holland, Lacombe, Mace, Matthews, McGraw, Newman, Nereid, O'Brien, Stephens, Ward, Wayne and Yates Aves., Arnow Pl. and White Plains Rd., from Norton Eng. and Contg. Co., $36,525. Noted Sept. 13.

N. J., Trenton—For 450 tons 10 in. c.i. pipe, from R. D. Wood & Co., 400 Chestnut St., Phila., $61.30 per ton; U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., $61.30. Noted Sept. 13.

O., Cleveland—Cuyahoga Co., Sept. 12, 12,000 ft. 6 and 8 in. c.i. mains, from Salem & George Bros., Erie Bldg., $43,085. Noted Sept. 6.

CONTRACTS AWARDED

O., Cleveland — To Kennedy Valve Mfg. Co., East Water St., Elmira, N. Y., forty 30 in. flanged, eighty 24 in. flanged and forty 24 in. wash water flanged valves, all hydraulically operated, $29,952, $33,167 and $21,992 respectively, one 24 in. flanged valve, electrically operated $675, total cost $85,787; to Rensselaer Valve Co., Ontario St., Troy, N. Y., one 24 in. gate valve $470, two 54 in. valves $4,400, four 48 in. $5,120, one 42 in. $1,540, four 30 in. $2,760, two 12 in. $161, eight 8 in. $337, three 6 in. $80, twenty-one 4 in. $308, two 36 in. flanged valves $1,650, sixteen 12 in. flanged valves $998 and forty 8 in. flanged valves $1,320, all hand operated, also one 24 in. check valve $365, total $19,509. Noted Sept. 6.

Ind., Evansville — Bd. Water Trustees, buildings and structures for 6 m.g. addition to water filtration plant, to A. Phelps & Sons, Knoxville, Ia., $98,480; furnishing filter equipment for same, to International Filter Co., 333 West 25th Pl., Chicago, $57,000. Noted Sept. 13.

Mich., Detroit—Dept. Water Supply, furnishing 100 tons Class C. 42 in. c.i. pipe and 105,600 ft. 6 in. centrifuggal pipe to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., $55 per ton $5,000 and $0.878 per ft. $92,677 respectively; 1,504 tons 8 in. c.i. pipe to Lynchburg Fdry. Co., Peoples Natl. Bank Bldg., Lynchburg, Va., $55.70 per ton $85,277.

Wis., Portage — Intake cut, submerged pipe line for city water supply, to J. Allmendinger, Benton Harbor, Mich., cost plus fixed fee basis. Noted Aug. 23.

Mo., Edina—Impounding reservoir, filter plant and several miles distributing mains, to F. Shofner, Atchison, Kan., $30,700. Engrs. est. $35,000.

Sewers

PROPOSED WORK

R. I., Cranston (Providence P. O.)—Had surveys made sewerage system. $2,600,000. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, engrs. Noted March 10, 1921.

Conn., Hartford—Street Dept. plans laying new sewers in Church St. from Turnbull St. to railroad station. $50,000. R. N. Clark, city engr.

Conn., New Britain—Bd. Pub. Wks., plans vitr. clay sewers in various streets. $50,000; extension to East Side trunk sewer, 24 in. vitr. clay pipe, $50,000; Cherry St. storm water sewer, main trunk, 15 in. vitr. clay pipe, $25,000; 1,500 ft. 36 in. segmental block, Commonwealth Ave., $25,000. J. D. Williams, city engr.

N. Y., Irondequoit—Making surveys sewage disposal plant. $25,000. Weeks, Cole & Newell, Rochester, engrs.

N. Y., Pittsford—Village making plans Sewerage System 1. $40,000. G. C. Wright, Court House, Rochester, engr.

Pa., Bellevue (Pittsburgh P. O.)—Ross Twp. Bd. Comrs., c/o H. B. Ruehl, Keystone Ave., having plans prepared sanitary sewerage system, terra cotta pipe. $60,000. McCully Eng. Co., Bergen Bldg., Pittsburgh, engrs.

N. C., Goldsboro—See "Waterworks."

Fla., Bartow—Soon takes bids sanitary sewerage system. $90,900. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Aug. 16.

O., Cincinnati—Plans to build Duck Creek sewer. $275,000. F. Krug, City Hall, engr.

O., Columbus—See "Streets and Roads."

Ia., Ft. Dodge—Takes bids about Oct. 1 for 25 blocks 8-27 in. vitr. clay sewers. $35,000. C. H. Reynolds, city engr.

Ia., Mason City—Soon takes bids 13,000 ft. 8-3 6 in. vitr. clay or concrete sewers. $25,000. C. H. Stevens, city engr.

Minn., Tracy—City rejected bids sewerage system repairs, extensions and reconstruction, and installing septic tank. $28,000. Will readvertise. Noted Nov. 23.

Kan., Onaga — Making plans sanitary sewerage system. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Mo., Greenfield—See "Waterworks."

Mo., Ridgway—Voted $45,000 bonds for sanitary sewerage system and disposal plant. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, engrs. Noted Sept. 6.

Tex., Laredo—Rejected bids storm sewers and appurtenances. S. F. Crecelius, 211 Alexander Bldg., engr. Noted Aug. 30.

Calif., Visalia—Had plans prepared new modified Imhoff septic tank for sewer farm. $30,000. L. H. Gadsby, city engr.

Que., Montreal—See "Waterworks."

BIDS DESIRED

N. Y., Brighton — Oct. 8, by Bd. Sewer Comrs. Sewer Dist. 2, Clover St., sanitary sewers and sewage disposal plant, Contrs. A, B and C; also by Bd. Sewer Comrs., Sewer Dist. 1 of Town of Pittsford, Clover St., Brighton, sewers, Contr. D. W. S. Lozier, Cutler Bldg., Rochester, consult. engr.; adv. E. N.-R. Sept. 27.

N. J., Asbury Park—Oct. 2, 4,470 lin.ft. 12-36 in. concrete storm drains, etc. N. Rogers, Asbury Park, engr.

Md., Baltimore—Oct. 3, by Bd. Awards, constructing storm water drains and sanitary sewers in Bellwood Ave. near Belair Rd. Storm Water Contr. 64, incl. 900 ft. of 6-9 ft., rein.-con. drain and 700 ft. 18 in. sanitary sewer. $30,000. B. L. Crozier, City Hall, highway engr.

Miss., Crystal Springs—Oct. 1, by Mayor and City Council, sewerage system. $30,000.

Miss., Leland—Oct. 2, by J. T. Mathis, mayor, and Bd. Alderman, furnishing 15,670 ft. 10-30 ft. double strength vitr. hub and spigot sewer pipe or concrete or iron pipe of nearest equivalent size and equal strength, f.o.b. Leland. R. A. Phillips, supt. water and light system.

O., Columbus—See "Streets and Roads."

O., Euclid—Oct. 1, by village, for excavation, concrete work, drainage and land section of outfall sewer. $250,000. Former bids rejected. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr. Noted Apr. 12.

Calif., Los Angeles—Oct. 1, by Bd. Pub. Wks., 270,000 sewer brick and 130,000 vitr. brick for Sect. 3 of North Outfall Sewer.

Calif., Visalia—Oct. 1, by I. Markham, clk., constructing modified Imhoff type septic tank, concrete-lined influent and effluent channels, bar screen, sludge drying bed, water piping system and other appurtenant construction. L. H. Gadsby, city engr.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Borough Hall, Sept. 20, sewers in (1) West 8th St. (2) West 10th St. (3) West 12th St. (4) West 15th St. (5) West 16th St. (6) West 19th St. (7) West 24th St. (8) West 27th St. (9) West 28th St. (10) West 29th St. (11) West 35th St. (12) West 36th St. (13) Stillwell Ave. (14) 45th St. (15) West 31st St. (16) Hamilton Ave., from J. J. Guinan Contg. Co., Inc., 2314 Gravesend Ave., (1) 90% engrs. est. ($4,825) (2) 83% ($3,505) (7) 83% ($9,824) (8) 84% ($7,805) (11) 83% ($4,848) (15) 83% ($6,378); Tomasetti & Co., Inc., 1133 60th St. (3) 85.85% ($13,083) (13) 85.85% ($13,547); P. J. Donlon Contg. Co., 82 South 3rd St. (4) 84.9% ($15,762) (5) 83.5% ($14,150) (6) 83.2% ($13,418) (9) 83% ($6,165) (10) 85% ($6,858 (12) 83% ($4,942); Necaro Co., Inc., 97 Court St. (16) $275,424; S. Ambrosio, 1016 60th St. (14) 88% ($450). Noted Sept. 13.

O., Cleveland—Cuyahoga Co. 9,850 ft. 8-10 in. and 9,850 ft. 12-48 in. vitr. clay sewer in Impvt. 33, Sect. A, of Co. Sewer Dist., from Gallagher Burke Co., 1228 Bonnieview Ave., Lakewood, $144,291.

Tex., Laredo — Storm sewers in various streets, 2,425 ft. 30 in. segmental block, 23,433 lin.ft. 12-21 in. vitr. pipe and 30,708 cu.yd. earth trenching, from Kirkwood & Wharton, 231 West Commerce St., San Antonio, $83,315.

Wash., Seattle — Bd. Pub. Wks. laying 4,980 ft. 8 in., 1,030 ft. 10 in., 1,046 ft. 15 in. and 2,214 ft. 12 in. sewers in 32nd Ave. S., from Coluccio & Erickson, 1642 Lane St., Seattle, concrete $34,523, clay $33,948; laying 58,857 ft. 8-30 in., 1,450 ft. 15-30 in. and 415 ft. 8-24 in. c.i. sewers in 30th Ave. S. W. et al., from J. F. Shea & Co., Henry Bldg., Portland, Ore., concrete $200,599, clay $205,016.

Sewers (Continued)

Calif., Tracy — Sewage disposal plant, from Davis-Heller-Pearce Co., Delta Bldg., Stockton, complete plant using vitr. pipe, $63,408; vitr. pipe only from T. E. Clinch, 668 9th St., Richmond, 18 in. $2.18 per ft., 12 in. $1.68 per ft. Noted Sept. 13.

CONTRACTS AWARDED

Conn., East Hartford—Bd. Comrs., Wells Hall, 2,400 ft. 8-15 in. vitr. clay sewers in various streets, to N. C. Casiano Co., 20 Lilly Rd., West Hartford. Est. cost $40,000.

Md., Baltimore—Constructing storm water sewers in Dist. J-1 and other localities, Contr. 59, 6,000 lin.ft. 15-54 in. pipe, to D. Catalano, Knickerbocker Bldg., $34,815. Noted Sept. 20.

Mich., Detroit—Dept. Pub. Wks., 1,251 ft. Liddesdale Ave. Sewer, Sect. 1, in Liddesdale and Sanders Aves., to W. Blanck & Co., 827 Ford Bldg., $97,786. Noted Sept. 13.

Mich., Springwells—B. P. Esper, village clk., lateral sewers in Dists. 18, 19 and 22 to S. Fattore, 2201 St. Aubin Ave., Detroit, $10,133, $13,238 and $13,500 respectively; Dist. 20 to Coolsaet Bros., 911 Detroit Savings Bank Bldg., Detroit, $6,648; Dist. 21 to Rennie & Dibble, 11331 Colonial Ave., Detroit, $26,572; Sewer Arm 38 to G. Pontarelli, Wolverine Hotel, Detroit, $13,975. Noted Sept. 20.

Mo., Edina—Sewage disposal plant and 10 mi. sanitary sewers, to E. K. Ladd Constr. Co., Kansas City, $49,400. Engrs. est. $60,000.

Tex., Houston — For 7,355 ft. 36-72 in. monolithic concrete sewer in Woodland Heights, to C. K. Horton, Box 1025, $102,447.

Waste Disposal

PROPOSED WORK

O., Findlay—Plans modern garbage disposal plant. $75,000. Engineer not announced.

Bridges

PROPOSED WORK

New Jersey—State Hy. Comn., Trenton, rejected bids highway bridge with its approaches over Raritan River between Perth Amboy and South Amboy. New bids will probably be received early in December. Noted Sept. 20.

Fla., Jacksonville—Had plans prepared 2 concrete bridges with steel draw spans, $450,000. Harrington, Howard & Ash, 1001 Orear Leslie Bldg., Kansas City, Mo., engrs.

Ala., Greenville—Butler Co. having plans prepared 1,100 ft. bridge on road from Georgiana to Conecuh Co. line, Federal Aid Project 143, one 80 ft. steel span and fifty-two 16 ft. treated timber spans, concrete piers and treated timber piles. $56,000. W. S. Keller, Belle Bldg., Montgomery, engr.

La., New Orleans—Dept. Pub. Property and New Orleans Pub. Serv., plan cantilever bridge over New Basin Canal on Carrolton St. $100,000.

Tenn., Nashville—Soon takes bids repairing and strengthening steel and concrete bridges over Cumberland River on Snarkman and Jefferson Sts. $300,000. Freeland, Roberts & Co., Independent Life Bldg., consult. engrs. Noted Apr. 19.

O., New Philadelphia—Tuscarawas Co. plans cement bridge to replace Browns Bridge which collapsed. $26,000. G. Fiedler, New Philadelphia, engr.

Ia., Ottumwa—Making plans two 100 ft. spans over water power head race, one at South Wapello St. and other at Black Hawk St., to exceed $50,000. Marsh Eng. Co., Masonic Temple Bldg., Des Moines, engrs.

Kan., Wichita—Plans viaduct on Waterman St. $150,000. P. L. Brockway, city engr.

Missouri—State Hy. Dept., Jefferson City, rejected bids Sept. 5, cleaning, painting and reflooring two 152 ft. steel truss spans over Jacks Fork, State Project Route 17, Sect. 43, Texas Co., also one 120 ft., eight 30 ft. and one 15 ft. steel span bridge over Roark Creek, State Project Route 3, Sect. 116, Taney Co. Noted Sept. 20.

Ore., Portland—Multnomah Co. and City election Nov. 6, to vote on $350,000 bonds for 750 ft. five span steel bridge, concrete piers, over Willamette River. Will use portion of steel from Burnside Bridge, Hedrick & Kremers, 250½ 3rd St., engrs.

California—State Hy. Dept., Sacramento, rejected bids bridge over Cedar and North Fork Pacheco Creeks, Santa Clara Co. Will revise plans. $56,568. Noted Sept. 20.

Calif., Santa Cruz — See "Streets and Roads."

Ont., Bridgeburg—Plans bridge between here and Black Rock, Town has passed through its Council an endorsement of project to extent of $1,000,000. Canadian Natl. Ry. expected to stand expense of approaches on both sides. Province of Ontario will also contribute. Total cost $1,500,000. H. A. Stewart, Vancouver, B. C., promoter.

BIDS DESIRED

Vermont—See "Streets and Roads."

N. Y., Fishkill—Oct. 16, by E. H. McCallin, supt. Highways, Town Hall, steel plate girder bridge known as Brinckerhoff Bridge over Fishkill Creek; adv. E. N.-R. Sept. 27.

Pa., Wilkes-Barre — Oct. 11, by P. J. Schmidt, controller Luzerne Co., Court House, repairing and reconstructing Upper Plymouth Bridge; adv. E. N.-R. Sept. 27.

Pa., Wilkes-Barre — Oct. 12, by P. J. Schmidt, controller Luzerne Co., Court House, sinking test bore holes for new bridge over Susquehanna River, North St.; adv. E. N.-R. Sept. 27.

Virginia—See "Streets and Roads."

W. Va., Williamson—Oct. 16, by Mingo Co. Court, constructing Gilbert and Justice Bridges over Guyandotte River. H. Cook, co. engr.; adv. E. N.-R. Sept. 27.

North Carolina—Oct. 10, by State Hy. Comn., Raleigh, constructing rein.-con. bridges and culverts on Project 763, Surry Co., $53,600, Project 686 Stanley Co., $53,000, Project 404 Chatham Co., $56,000, Project 302 Brunswick Co., $240,000, Project 721 Caldwell Co., $35,000. C. M. Upham, ch. engr.

Fla., West Palm Beach—Oct. 3, by C. H. Holtshaw, engr. Palm Beach Co., 100 ft. rein.-con. bridge on Port Sewell Rd., and timber pile bridge over Ritta River. $26,000.

Ala., Eufaula—Oct. 18, by State Hy. Comn., Montgomery, piers and approaches for Eufaula-Georgetown Bridge over Chattachoochee River, here, 660 ft. long, substructure involves 1,127 cu.yd. concrete, 45,450 lb. reinforcing etc., approaches, 383 cu.yd. concrete, 60,837 lb. reinforcing, etc., for States of Alabama and Georgia. W. S. Keller, Montgomery, state highway engr.

Miss., Lexington — See "Streets and Roads."

Mich., Germfask—Oct. 11, by State Hy. Dept., Lansing, constructing Bridge 750302, 90 ft. concrete girder, 22 ft. roadway, here, Schoolcraft Co. F. F. Rogers, state comr.

Mich., Okemos — Oct. 8, by State Hy. Dept., Lansing, construction Bridge 3310001, 90 ft. concrete girder, 22 ft. roadway, near here, Ingham Co. F. F. Rogers, state comr.

Ia., Indianola—Oct. 9, by Auditor Warren Co., one 20 x 130 ft. high truss bridge and 46 box culverts and extensions, 110,600 lb. steel, 1,275 cu.yd. rein.-con., etc. Iowa Hy. Comn., Ames, engrs.

S. D., Mobridge — Oct. 23, by State Hy. Dept., Pierre, bridge over Missouri River near here. G. H. Henry, secy.; adv. E. N.-R. Sept. 27.

Tex., Hemphill—See "Streets and Roads."

Tex., Centerville — Oct. 26, by W. D. Lacey, judge Leon Co. 1,370 ft. timber pile trestles and 8,160 ft. earth approaches over Keechi, Beaver and Boggy Creeks. $34,500. F. W. Gaines, co. engr.

Ore., Portland—Oct. 22, by Comrs. Multnomah Co., Court House, substructures for Ross Island and Burnside St. bridges across Willamette River, here. C. S. Rudeen, chn. Hedrick & Kremers, 250½ 3rd St., consult. engrs.; adv. E. N.-R. Sept. 27. Noted Mar. 22.

Ore., Portland—Oct. 8, by Comrs. Multnomah Co., timber pile bridge on Government Island Rd., near here, 98,780 ft. timber, etc. C. Rudem, chn. R. C. Bonser, Portland, engr.

BIDS RECEIVED

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, timber approaches for Calcasieu River Bridge between Lake Charles and De Ridder, Calcasieu Parish, from Austin Bridge Co., 1813 Clarence Ave., Dallas, Tex., $38,301.

Ohio — Dept. Highways and Pub. Wks., Columbus, Sept. 14, concrete bridge on Sect. "A" Delphos-Wapakoneta Rd., Auglaize Co., from Stout & Stout, Stoutsville, $27,774; "Dry Run" Bridge on Bellefontaine-Wapakoneta Rd., and bridge on Sect. "Blackhoof Creek" Bellefontaine-Wapakoneta Rd., also on Sect. "C" Picqua-St. Marys Rd., all in Auglaize Co., from W. L. Hastings, Wapakoneta, $3,865, $2,907 and $4,335 respectively; concrete bridge on Sect. "G" Logan-New Lexington Rd., [illegible] concrete bridge on Sect. "P-2" Logan-New Lexington Rd., Hocking Co., from C. A. Lunsford, Logan, $2,538 and $1,511 respectively; bridge on Sect. "D" Sidney-Wapakoneta Rd., Shelby Co., from L. Pickering, Bellefontaine, $6,663; bridge on Sect. "H" and "G" New Philadelphia-Uricksville Rd., Tuscarawas Co., from B. C. Patterson, $23,744; on Sect. "E" New Philadelphia-Uhricksville Rd., Tuscarawas Co., from O'Hara & Gerkins, Whitehouse, $25,856; concrete culvert on Sect. "A" Ohio River Rd., Washington Co., from S. A. Palmer, Marietta, $7,087.

Mich., Adrian—State Hy. Dept., Lansing, 50 ft. concrete girder Bridge 460,103 and 90 ft. concrete girder Bridge 460,104, 237 cu.yd. rein.-con., 551 cu.yd. concrete, 53,475 lb. reinforcing steel, Lenawee Co., from Smith & Nichols, Hastings, $24,332.

Wis., Milwaukee—Park Rd., City Hall, concrete piling for new viaduct on Mason St., from Simplex Pile Foundation Co., Keystone Bldg., Pittsburgh, Pa., $76,600. Noted Sept. 13.

CONTRACTS AWARDED

New York — Committee on Bridges, at office of C. MacDonald, engr. Westchester Co., White Plains, constructing Van Cortland Bridge over Croton River, between Cortland and Ossining, to McLean Contg. Co., Fidelity Bldg., Baltimore, Md., $169,597. Noted Aug. 30.

New Jersey—Joint Bridge Comn. Essex and Hudson Counties, Court House (Newark) repairing and repaving bridge deck, concrete and wood block, over Passaic River, Jackson St., to J. Befumo, East Orange, $49,879. Noted Aug. 30.

Pa., Phila.—Delaware River Bridge Joint Comn., Widener Bldg., bridge over Delaware River connecting Phila. Pa. and Camden, N. J., to Keystone State Constr. Co., 210 South 13th St., 13,500,000 lb. wire cables $0.18, 50,000 ft. suspender ropes $1.60, 180,000 lb. steel castings $0.15, 6,000 lbs. high tensile bolts $0.15, 30,000 lbs. structural steel shims $0.20, 30,000 lbs. cl. separators $0.10, total $2,546,900.

Fla., Clearwater—Pinellas Co. creosoted timber and steel lift span, over Tarpon Bayou, to Pensacola Shipbuilding Co., Pensacola, $29,565; several concrete arch bridges over Bayshore Rd., to Luten Bridge Co., West Market St., York, Pa., $179,071. Noted May 10.

Louisiana—See "Streets and Roads."

Mich., Grand Haven—State Hy. Dept., Lansing, Bridge 701,302, 512 ft. long, 24 ft. roadway, 3 approach spans and swing span, 1,259,000 lb. steel, near here, to Wisconsin Bridge & Iron Co., North Milwaukee, Wis., $129,057.

Mich., Saline—State Hy. Dept., Lansing, Bridge 8111001, concrete girder, 75 ft. span, 22 ft. roadway, to J. S. Whitcomb Constr. Co., 525 Woodard Ave., Detroit, $39,542. Noted Sept. 6.

O., Cincinnati—Baltimore & Ohio R.R., Baltimore and Charles Sts., Baltimore, one 40 ft. and one 83 ft. through plate girder bridges across Gest St. and Colerain Ave., here, to Seaboard Constr. Co., Real Estate Trust Bldg., Phila., Pa. Engrs. est. $85,000. Noted Sept. 6.

Indiana—State Hy. Comn., Indianapolis, constructing bridges, **F A means Federal Aid, S A State Aid, S R State Road, s t steel truss, r c g rein.-con. girder, r c a rein.-con. arch, r c s rein.-con. slab, sub substructure, super superstructure; sub s t with four 198 ft. spans over White River, S R 4-M, F A 16, Lawrence, means substructure of steel truss bridge with four 198 ft. spans over White River, on State Rd. 4-M, Federal Aid 16, Lawrence Co.;** s t with four 198 spans over White River, S R 4-M, F A 16, Lawrence; sub and small culverts to Natl. Concrete Co., 825 Lemcke Bldg., Indianapolis, $67,121, super to Vincennes Bridge Co., Vincennes, $75,533, approach and grading, to I. C. McDonald, Frankfort, $87,592; to Vincennes Bridge Co., Vincennes, one 30 ft. s t over Drain Ditch S R 2-C, F A 17, Porter, and one 55 ft. s t over Drain Ditch, S R 2-D, F A 17, Laporte Co., $10,592, super one 55 ft. s t over Grassy Creek, S R 1-E, F A 21, Jackson, one 72 ft. s t over Blue Lick Creek, S R 1-B, F A 21C, Clark, one 55 ft. s t over Pigeon Roost Creek, S R 1-C, F A 21, Clark, and one 55 ft. s t over Hutto Creek, S R 1-D, F A 21, Scott, total $22,236, super s t three 124 ft., over Muscatatuck River, S R 1-E, F A 21, Jackson, and one 124 ft. s t over Muscatatuck River, Jackson-Scott, total $37,328; to F. K. Vaughn Building Co., Hamilton, O., **1 r c g with twelve 38 ft. spans, one 124 ft. s t and 1 r c g with five 38 ft. spans, over Muscatatuck River, S R 1-E, F A 21, total $81,030, 1 r c g with**

Bridges (Continued)

three 38 ft spans over Flat Creek, 1 r c g with three 38 ft. spans over Muscatatuck Bottoms, S R 1-D, F A 21, one 28 ft. r c g over White Eye Creek, S R 40-G, F A 59, Scott, and one 124 ft. s t and 1 r c g with twelve 38 ft. spans over Muscatatuck River, S R 1-D, F A 21, Jackson-Scott, total $88,486; to H. C. Hall, Carlisle, one 50 ft. r c a over Drain Ditch, S R 10-I, F A 35, Vigo, $7,350; to R. H King, Danville, one 28 ft. r c g over Bush Creek, and 1 r c a with three 65 ft. spans, over Big Eagle Creek, S R 6-H, F A 40, and one 48 ft. r c a over Little Eagle Creek, S R 6-H, S A 6, Marion, total $32,471; to G. O. Reed, Inc., Michigan City, one 60 ft. s t and one 28 ft. r c g over Trail Creek, S R 15-H, F A 48, and one 48 ft. r c a over State Creek, Boot Jack Rd., F A 48, Laporte, total $32,238; to Elkhart Bridge & Iron Co., Elkhart, one 40 ft. s t over Drain Ditch, S R 2-L, S A 2, Whitley, $3,246. Noted Aug. 30.

Ind., Ft. Wayne—Comrs. Allen Co., concrete arch bridge with two 96 ft. and two 99 ft. spans, over Maumee River, 40 ft. roadway, two 8 ft. sidewalks, to I. E. Smith Constr. Co., Richmond, $188,990. Noted Aug. 23.

Ia., Anamosa—Jones Co., 22 box culverts and extensions, 1 pony truss and 2 I-beams, 1,220 cu. yd. rein.-con., 46,560 lb. eteel, etc., to L. Q. Holden, Earlville, $28,996.

Minnesota—State Hy. Dept., St. Paul, Bridge 4090 on State Project 3-39, Federal Aid Project 327, over Clearwater River, Wabasha Co., five 75 ft. truss spans, to Illinois Steel Bridge Co., 552 Gilfillan Blk., St. Paul, $31,949; Bridge 4138 over Zumbro River, on State Project 59-23, Federal Aid Project 335, in Rochester, Olmsted Co., three 65 ft. low truss spans, to Independent Bridge Co., 1101 Metropolitan Life Bldg., Minneapolis, $27,770. Noted Sept. 13.

Missouri—State Hy. Dept., Jefferson City, three 80 ft. steel truss spans, 2 rein.-con. piers, etc., over Marias Des Cygnes River, on Sta. 1219 plus 40, three 80 ft. steel truss spans, 2 rein.-con. piers, etc., over Marias Des Cygnes River, on Sta. 1,250 plus 60, three 100 ft. and two 60 ft. steel truss spans, 4 rein.-con. piers, etc., over Miami River, all in Bates Co., to Western Bridge Co., Harrisonville, $29,082, $32,155 and $54,230 respectively; thirty-nine 20 ft. I-beam spans, over overflow of Grand River, Livingston Co., to Callahan-Walker Constr. Co., 322 Peters Trust Bldg., Omaha, Neb., $40,967; six 20 ft. rein.-con. slab spans, 20 ft. roadway, over Grand River, Cass Co., six 20 ft. rein.-con. slab spans over Willow Branch, Ray Co., and three 12 ft. rein.-con. slab spans, 2 rein.-con. piers, etc., on Sta. 294 plus 48, Cass Co., to L. A. Woods Constr. Co., Smithville, $8,877, $13,853 and $3,291 respectively; one 50 ft. steel truss span over Jordan Branch, and one 25 ft. concrete girder span, 20 ft. roadway, over East Branch of Jordan Branch, DeKalb Co., also one 70 ft. steel truss span over Castile Creek, one 30 ft. concrete deck girder span over east branch Castile Creek, and one 40 ft., rein.-con. deck girder span over west fork of Castile Creek, DeKalb Co., to Land Constr. Co., Ballinger Bldg., St. Joseph, $21,130 and $31,673 respectively; four 30 ft. I-Beam spans over Cow Branch, and one 60 ft. steel truss, and four 20 ft. rein.-con. slab spans, 2 rein.-con. piers, over Rock Creek, Atchison Co., to G. W. Condon, 510 Farnum Bldg., Omaha, Neb., $24,110; one 180 ft. steel truss and four 20 ft. rein.-con. slab spans, 20 ft. roadway, etc., over Big St. Francis River, Madison Co., to C. T. Fogle, Jefferson City, $30,890; three 80 ft. steel truss spans, 2 rein.-con. piers, etc., over 3rd fork of Platte River, Buchanan Co., to O. Smith, St. Joseph, $27,471; one 60 ft. steel truss and six 20 ft. rein.-con. slab spans, 2 rein.-con. piers, etc., over 102 River, one 60 ft. steel truss and six 20 ft. rein.-con. slab spans, 2 rein.-con. piers, etc., over Platte River, Buchanan Co., to J. Stanton, 5th and Kiowa Sts., Leavenworth, Kan., $40,728; three 10 ft. rein.-con. slab spans over Spring Creek, Douglas Co., to Summerfield-Jones, Billings, $2,017; one 40 ft. I-beam span, 20 ft. roadway, over Maple Slough D.D., Mississippi Co., to R. L. Williams, Wyatt, $6,773; one 70 ft. rein.-con. arch span, 20 ft. roadway, over River Des Peres, St. Louis Co., to E. C. Johnson, Carrollton, $18,131; one 60 ft. steel truss span, 20 ft. roadway, over Minnow Branch, and one 12 ft. rein.-con. slab span, 20 ft. roadway, etc., on Sta. 389 plus 00, Marion Co., to Cameron & Joyce, Keokuk, Ia., $18,729; one 25 ft. rein.-con. deck girder span, 20 ft. roadway, Newton Co., to J. P. Wolfenbarger, Neosho, $3,331. Noted Sept. 20.

Tex., Pittsburg—See "Streets and Roads."

Tex., Brenham—See "Streets & Roads."

Washington—State Hy. Comn., Olympia, steel truss bridge, 100 ft. span with two 20 ft. concrete approaches over Cedar River, King Co., to Ward & Ward, Inc., Tacoma, $28,360; steel span bridge, 240 ft. with two 30 ft. concrete approaches, across Hamilton Creek between Rands and West Greenleaf, Skamania Co., to Union Bridge Co., Central Bldg., Seattle, $47,447.

B. C., Terrace—Provincial Government, Victoria, one 250 ft., one 160 ft., two 140 ft. and two 90 ft. through truss girder spans over Skeena River, substructure to E. H. Shockley and O. Hanson, Prince Rupert, $40,000, superstructure to T. Coughlan & Sons Ltd., Columbia Ave., Vancouver, $125,000.

Ark., Lonoke—Lonoke Co. 105 ft. bridge over Wabbaseeka Bayou, three 25 ft. and one 30 ft. spans on I beams, 44,100 lb. steel, 150.3 cu.yd. concrete, 2,288 lb. reinforcing steel, 882,000 ft. timber, also bridge near Carlisle, three 30 ft. spans on I beams, 45,900 lb. steel, 118.56 cu.yd. concrete, 1,010 lb. reinforcing steel, 3,500 ft. timber, to Western Constr. Co., Little Rock.

B. C., Kamloop—Provincial Government, Victoria, three 212 ft. and two 154 ft. through truss steel spans over Thompson River, substructure to W. Greenlees, 592 Seymour St., Vancouver, $80,000.

Dams

PROPOSED WORK

Mich., Marquette—City having plans prepared rein.-con. and steel dam and penstock in Dead River for power plant. $50,000. Orbinson & Orbinson, 812 College Ave., Appleton, Wis., engrs.

Ia., Albia—See "Waterworks."

Ark., Little Rock—Arkansas Power Corp. along Little Red River near here, soon takes bids power dam on Little Red River, 30,000 cu.yd. earth and 30,000 cu.yd. rock excav., 40,485 cu.yd. concrete, 7,500 sq.ft. power house superstructure, 14 tainter gates, 3,500 sq.ft. racks and supports, 1 electric crane, 4 steel penstocks, 3 water wheels, 3 generators with exciters and switchboards, 15,000 KVA. step-up station at dam. $1,787,600. Dickinson & Watkins, Boyle Bldg., engrs.

Calif., Montecito—Montecito Co. Water Dist. having surveys made concrete dam, 135 ft. high, 300 ft. long on top, 50 ft. at bottom, at Junal Reservoir site, also 6,000 ft. tunnel 7 x 8 ft., at Rorro Canyon through Santa Ynez Mountains. Leeds & Barnard, Central Bldg., Los Angeles, engrs.

Excavation, Drainage Irrigation

PROPOSED WORK

Fla., Bradentown—Manatee Co. making new surveys and will take new bids constructing Cedar Hammock Drain. $25,000. Former bids rejected.

Fla., Tampa — U. S. Chemical Export Corp., Krause Bldg., making plans and estimates dredging ship channel from mouth Alafia River t omain ship channel, 1,000,000 cu.yd. excav. $400,000. P. S. Gilchrist, Charlotte, N. C., engr.

Ark., Walnut Ridge—Village Creek D. D. takes bids about Nov. 15, 2,500,000 cu.yd. excav., main and lateral ditches, levees, etc. $360,000. H. R. Carter, Exch. Bank Bldg., Little Rock, engr.

Tex., Corpus Christi—City and Nueces Co. Navigation Dist. 1, postponed opening bids and will revise plans and readvertise for constructing breakwater, protecting levee around turning basin also dredging in new turning basin. Noted Sept. 6.

Calif., Porterville — Vandalia Irrigation Dist. plans to vote on bonds for system to irrigate 1,255 acres. I. H. Althouse, Terra Bella, engr.

BIDS DESIRED

Miss., Clarksdale—Oct. 9, by Bd. Levee Comrs. for Yazoo-Mississippi Delta, enlarging 5 mi. old Ward Lake levee, 75,000 cu. yd. banquette enlargement and 10,000 cu.yd. topping. W. L. Head, ch. engr. Noted Sept. 13.

Ia., Corydon—Oct. 2, by Supervs. Wayne Co., constructing 18¼ mi. channel for Charlton River D. D., 629,000 cu.yd. excav., etc. P. S. Holbrook, 1106 21st St., Des Moines, engr.

Ia., Mason City—Oct. 8, by G. E. Frost, aud. Cerro Gordo Co., for D. D. 118, 38,645 lin.ft. 6-26 in. tile, 12 cu.yd. rein.-con. headwall, etc. $25,000.

Ia., Mason City—Oct. 12, by G. E. Frost, aud. Cerro Gordo Co., for Joint D. D. 95, Cerro Gordo Co., and 67, Worth Co., main section 13,650 ft. 7-36 in. tile, Sect. 2, 20,850 lin.ft. 6-24 in. tile, Sect. 3, 23,400 lin. ft. 6-20 in. tile. $32,000.

Tex., Edinburg — Oct. 1, by W. L. Rockwell, engr., Edinburg, reconstructing 28 mi. canals, pumping plants, clearing right-of-way, constructing wooden and concrete gates and bridges. $200,000.

Ont., Toronto—Oct. 15, by A. Beck, chn. Hydro Electric Power Comn., 190 University Ave., excavation of tailrace channel, 20,000 cu.yd. rock.

CONTRACTS AWARDED

La., Lake Charles—Police Jury Calcasieu Parish, navigation channel from here to Sabine River, 125 ft. wide, 30 ft. deep, Sect. 1, 2,780,000 cu.yd. to United Dredge Co., Galveston, Tex., $383,640; Sect. 2, 3,270,000 cu.yd., to Smith Bros., Alexandria, $457,800. Noted Aug. 23.

Calif., Selma — Consolidated Irrigation Dist. rejected bids rein.-con. intake at Diversion Dam on Kings River, one for Centerville and Kingsbury Canal and one for Fowler Switch canal, also rein.-con. outlet for China Slough. Work will be done by day labor under supervision of I. Tielman, ch. engr. Noted Aug. 23.

Streets and Roads

PROPOSED WORK

Pa., Lewistown—Election Nov. 6, to vote on $125,000 bonds new paving and sewer work. Banks & Craig, Telegraph Bldg., Harrisburg, engrs.

Tennessee — Tennessee Dept. Hys. and Pub. Wks., Nashville, having surveys made constructing 15 mi. road from Athens to Monroe Co. line, McMinn Co., 18 ft.; 20 mi. road from Decatur to Hamilton Co. line, Meigs Co. J. G. Creveling, Nashville, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, had surveys made 25 mi. road from La Follette to Kentucky state line, Anderson Co., 14.5 mi. from Crossville to White Co. line, Cumberland Co. J. G. Creveling, state highway comr.

Tenn., Gallatin—Election soon to vote on $50,000 bonds for streets. B. H. Klyce, 4th & 1st Bldg., Nashville, engr.

Tenn., Sweetwater—Soon takes bids constructing 5 mi. streets, various types.

O., Cincinnati—Plans paving Baymiller St., granite block. $86,600. F. Krug, City Hall, engr.

O., Columbus—Making plans grading, laying necessary water services and sewer connections and paving 9,347 ft. Huron and Guernsey Aves., Olive, Palmetto and Kossuth Sts., 24 ft., brick or asphalt; 1,900 ft. 6 and 8 in. sanitary sewer in Iswald Rd. R. H. Simpson, city engr.

O., New Philadelphia — Plans repaving Public Sq. on High St. between 3rd and 6th Sts. and on Bway. from Front to Fair Sts., brick. $50,000.

O., Ravenna—Plans widening and repaving 8 blocks Main St. $27,500. A. S. Hillig, city engr.

O., Wellsville—City and Columbiana Co. (Lisbon) plan paving about 1 mi. Wells Ave., 30 ft., brick. $36,000. J. George, City Bldg., engr.

Wis., Racine—W. Bechthold, comr. Racine Co., plans concrete surfacing, etc., 8 mi. Howell Rd. Cost to exceed $25,000. State Hy. Comn., Madison, engrs.

Wis., Rhinelander — City retained Jerry Donohue Eng. Co., North 8th St., Sheboygan, to prepare plans for 1924 paving program. Cost to exceed $25,000. A. O. Rendell, city engr.

Minn., Minneapolis—Hennepin Co. plans road work in 1924 as follows: grading Eden Prairie Rd. from Hankins Corner to Co. line, $40,000; 5 mi. Bush Lake Rd. from Jefferson Highway west, $25,000, 5 mi. Bush Lake Rd., between Cahill and Fort Snelling-Shakopee Rd., $30,000, Dayton-Shakopee Rd. between Rockford Rd. and Bass Lake Rd., $20,000; paving about 2 mi. Minnetonka Blvd. between Falvey Ave. and city limits, $80,000. J. W. Shaffer, co. surv.

Minn., St. Paul—Ramsey Co. plans paving 2.5 mi. Prescott Rd., concrete, $75,000; 2 mi. around north end of Lake Phalen, $81,000. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Kan., Hutchinson—Election soon to vote on $80,000 bonds for paving various streets. R. B. Lee, city engr.

Kan., Independence — Soon takes bids grading and brick paving on 5 in. concrete with asphalt filler 2,600 ft. 18th St. from Maple to Cedar Sts., 26 ft. $25,000.

Kan., Marion—Marion Co. soon takes bids grading and surfacing with bituminous filled brick or concrete, 0.818 mi. New Santa Fe. Trail, Federal Aid Project 161, 18 ft. R. K. Walters, co. engr.

Streets and Roads (Continued)

N. D., Dickinson—Soon takes bids paving 11 blocks. $30,000. R. C. Hill, city clk.

Ark., Hot Springs—Plans paving Lower Central Ave. from West Grand to Greenwood Sts., also Dist. 7, Pecan St. from Fern to Prospect Sts., all of Fern and Rose Sts., Hawthorne St. from U. S. Reservation to Quapaw, Orange St. from Prospect to Quapaw Sts. Cost to exceed $25,000. G. C. Smith, city engr.

Ark., Little Rock—Soon takes bids grading, paving, curbing and guttering about 6 blocks, Annex to Dist. 349, rein.-con. or asphaltic concrete. $25,000. H. R. Carter, 2103 Gaines St., Little Rock, engr.

Tex., Abilene—Taylor Co. election Oct. 16, to vote on $350,000 bonds hard surfacing State Highways 1 and 30. W. A. Rinny, co. engr. Noted Sept. 13.

Tex., Bay City — Matagorda Co. plans grading and shell surfacing 8.33 mi. State Highway 12, 16 ft. $72,000. E. N. Gustafson, Angleton, co. engr.

Tex., Belton — Bell Co. making plans constructing concrete base and bituminous topping 8 mi. Belton-Temple Rd., State Highway 2, 20 ft. $400,000. G. W. Sutton, co. judge.

Tex., Canton — Van Zandt Co. making plans grading and concrete paving 9 mi. State Highway 15, 9 ft. $129,000. C. L. Hubbard, co. judge.

Tex., Carthage—Panola Co. making plans grading, gravel surfacing and bridging 15.9 mi. State Highway 8, Rd. Dist. 2, 18 ft., $250,000; grading and surfacing with bituminous macadam 5.6 mi. State Highway 8, Rd. Dist. 4, 18 ft., $86,500. Titus & Dillon, Center, engrs.

Tex., Clarksville — Voted $75,000 bonds constructing and widening various streets.

Tex., Corpus Christi—Nueces Co. making plans constructing 5.6 mi. road from Robstown toward here, 16 ft., bituminous macadam. $90,000. C. E. Cocke, Corpus Christi, engr.

Tex., Dallas—Making plans widening and paving Cockrell St. from Burnett to Forest Sts., $25,000; Elm St. east of Harwood St., $25,000. E. A. Kingsley, city engr.

Tex., Dickens—Dickens Co. making plans grading and gravel surfacing 18 mi. State Highway 18, 16 ft. $60,000. J. W. Alger, Dickens, engr.

Tex., Floresville — Wilson Co. making plans hard surfacing 13.2 mi. State Highway 9 from Saspamco to point 2 mi. south of here, 18 ft. $400,000. L. W. S. Mantel, Alice, engr. Noted Aug. 16.

Tex., Ft. Worth—Making plans permanent paving, probably bituminous curbing, guttering and grading streets in Sisk Heights. $25,000. D. L. Lewis, city engr.

Tex., Ft. Worth — Fairmount Land Co., Wheat Bldg., making plans permanent paving, curbing and guttering streets in University Pl. $30,000.

Tex., Ft. Worth—Hammond & Hammond, F. & M. Bank Bldg., making plans paving, curbing and guttering, etc., addition near Texas Christian University. $25,000. Baker & Von Zuben, Ellison Bldg., engrs.

Tex., Hemphill—Sabine Co. soon takes bids grading, gravel surfacing and bridging 7.19 mi. State Highway 8, 16 ft. $57,000. W. A French, San Augustine, co. engr.

Tex., Hemphill —Sabine Co. soon takes bids grading, gravel surfacing and constructing timber pile trestle bridges on 8.4 mi. State Highway 8, 16 ft. $90,000. W. A. French, San Augustine, co. engr.

Tex., Italy — Making plans permanent paving, etc., Main St. et al. $25,000. Engineer not announced.

Tex., Italy — Ellis Co. (Waxahachie) plans election to vote on $100,000 bonds, improving roads in Italy Rd. Dist. W. A. Spaulding, Waxahachie, engr.

Tex., Leakey—Real Co. soon takes bids graveling 18 mi. Highway 41, 18 ft. $70,000. W. E. Simpson Co., N. B. C. Bldg., San Antonio, engrs. Noted July 26.

Tex., New Boston — Bowie Co. making plans grading, gravel surfacing and amesite paving 3 m. State Highway 5, between New Boston and Texarkana, 16 ft. $40,000.

Tex., San Antonio — Bexar Co. making plans grading, gravel surfacing and bituminous topping 7.3 mi. Sequin Rd., Sect. of State Highway 3, 18 ft. $116,500. State Hy. Dept. granted $77,384 not to exceed ½ of cost. A. C. Pancoast, co. engr.

Tex., Sweetwater—Nolan Co. election Oct. 20, to vote on $600,000 bonds constructing 70 mi. Bankhead and Del Rio Canadian Highways, crushed rock with bituminous top. A. Z. Mauzey, co. judge.

Tex., Tyler — Smith Co. making plans grading and bridging 7 mi. State Highway 15 A, 25 ft., $27,500. D. K. Caldwell, co. engr.

Okla., Davis—Election soon to vote on $36,000 bonds grading and paving Main St., 9,000 sq.yd. concrete, 7,800 lin.ft. curbing and 2,800 cu.ft. excav. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs.

Okla., Fairfax—Having plans prepared grading and paving 4th, 3rd and Maple Sts., 16,200 sq.yd. vertical fibre brick, etc. $90,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Okmulgee — Had plans prepared grading and paving 7th St. and Kern Ave., 11,800 sq.yd. concrete, 6,300 lin.ft. curbing, etc. $45,000. T. J. Embree, Okmulgee, engr.

Okla., Sayre—Election soon to vote on $31,000 bonds grading and paving 6th, Cedar and Poplar Sts. 7,600 sq.yd. concrete, 4,600 lin.ft. curbing, etc. V. V. Long Co., 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Tonkawa—Plans 12 blocks brick paving. Ruckel Eng. Co., Interurban Bldg., Hutchinson, Kan., engrs.

Nevada—State Hy. Comn., Carson City, making plans gravel surfacing 18 mi. across Mormon Mesa, 18 ft., and 10 mi. across Mormon Mesa to Nevada State Line, both Clark Co., 12 mi. road from Eastgate to east county line, Churchill Co., 15.5 mi. Winnemucca-Golconda Rd. and 2.4 mi. in city of Winnemucca, Humboldt Co.; concrete and gravel surfacing 7 mi. Sparks-Hafed Rd. and 4.5 mi. road from Lawton to point 2 mi. east of Verdi, Washoe Co. G. W. Borden, state highway engr.

California—Following counties will contribute toward constructing Skyline Blvd., San Francisco $50,000, San Mateo $20,000, Santa Clara $20,000 and Santa Cruz $10,000.

Calif., Modesto — Comrs. Stanislaus Co. plan 3½ mi. highway between Newman and Hill Ferry Bridge over San Joaquin River. $62,000. J. H. Hoskins, co. surv.

Calif., San Diego — San Diego Co. had plans prepared paving 38,434 sq.yd. streets in Kensington Park, 1½ in. top, 2½ in. base, both willite, T. C. Martin, 4756 Kensington Dr., engr.; 24,932 sq.yd. Adams Ave. except between car tracks, 1½ in. asphaltic concrete surface, 5 in. portland concrete base with 4 in. sub-base of decomposed granite, $79,310, 12,881 sq.yd. Adams Ave. between car tracks, Normal Heights, 1½ in. asphaltic wearing surface, 5 in. concrete base, 11,588 sq.yd. 37th St., Normal Heights, 1½ in. asphaltic concrete surface, 3½ in. asphaltic concrete base and 3 in. sub-base of decomposed granite, E. R. Childs, Court House, engr.

Calif., Santa Cruz—Had plans prepared improving portions California Ave., 16,076 sq.ft. grading, 16,076 sq.ft. 5 in. concrete, etc.

Calif., Santa Cruz—Plans election to vote on $135,000 bonds paving Cliff Dr., constructing viaduct over Branciforte Creek and Garfield St. bridge.

Calif., Sonora—Tuolumne Co. plans paving with asphaltic concrete or other permanent pavement road leading from Tuolumne to Sonora and from Columbia to Sonora. $25,000 or more.

Que., Montreal—Plans 9,548 ft. asphalt pavements, 22, 24 and 30 ft. on 9th Ave., Langevin, St. Christophe, Dominion and Chabot Sts., $108,796; 7,449 ft. concrete sidewalks 4, 5 and 6 ft., on Carrieres Rd., Park, Pacific and 4th Aves., Little Alexandria, Bennett, Patterson, Peloquin, St. Ambroise, Melrose, Fabre and DeGaspe Sts., $32,719; 8,145 ft. cement slab sidewalks, 4 ft., on 2nd and 3rd Aves., Iberville and Bocage Sts., $6,614. E. Gauthier, asst. city clk.

BIDS DESIRED

New Hampshire—Oct. 4, by F. E. Everett, state highway comr., Concord, gravel surfacing 5 mi. highway in Newbury, Jaffrey, Grafton, and Exeter-Hampton, paving 0.88 mi. in Wakefield, modified asphalt.

Vermont—Oct. 4, at office of T. W. Dix, ch. engr. Dept. Highways, Montepelier, constructing highways and bridges; adv. E. N.-R. Sept. 27.

Massachusetts—Oct. 2, by W. F. Williams, state highway comr., Boston, bituminous macadam paving 21,046 ft. road, 18 ft., in Truro and Wellfleet. $120,000.

New York—Oct. 5, by State Dept. Pub. Wks., Bureau of Highways, Albany, construction, completion and reconstruction of roads in Albany, Allegany, Cortland, Dutchess, Livingston, Otsego, Seneca, Suffolk, Ulster and Yates Counties, L. Grossman, comr.; adv. E. N.-R. Sept. 27.

N. J., Keansburg—See "Waterworks."

Pa., Phila.—Oct. 2, by Dept. Pub. Wks., asphalt pavements on Camac and Cassimer Sts., Schedule A, granite block pavements on 49th St., Schedule B, 27,020 sq.yd. concrete floor and 1,500 ft. curb for West League Island Park bathing beach, Schedule C. F. H. Caven, dir. pub. wks.

Virginia — Oct. 11, at office State Hy. Dept., Richmond, constructing 3 mi. Project S-143, Bedford Co., 3.6 mi. Project S-145 A, Sussex Co., 2.9 mi. Project F-143, Stafford Co., 2 mi. Project S-310B, Brunswick Co., 0.7 mi. Project F-225B, Spotsylvania Co., 2 mi. Project S-327, Russell Co., 3 bridges Project S-320A, B and C, Norfolk and Princess Anne Counties. H. G. Shirley, chn.; adv. E. N.-R. Sept. 21

North Carolina—Oct. 10, by State Hy. Comn., Raleigh, grading and hard surfacing roads in Edgecombe-Pitt, New Hanover, Wake and Stanley Counties; topsoiling, sand clay, gravel, or grading, etc., in Chatham, Guilford, Davie, Surry and Caldwell Counties; macadamizing or graveling in Transylvania Co., one bridge in Bladen Co.; adv. E. N.-R. Sept. 27.

Ga., Atlanta—Oct. 5, by C. M. Holland, purch. agt. Fulton Co., Court House, resurfacing 10,106 sq.yd. Park Dr., hard surfacing 17,850 sq.yd. Peeples St., 7,700 sq.yd. Asby St. and 4,820 sq.yd. Beecher St.

Fla., Avon Park—Oct. 2, by Bd. Trustees, 40,000 sq.yd. asphalt paving and 4.75 mi. concrete curbing and guttering on various streets East of Lake View Ave., $95,000; clay surfacing 90,000 sq.yd. various streets, $30,000. Peacock & Hood, Avon Park, engrs.

Fla., Inverness—J. A. Kelley, chn. Citrus Co. Comn., receiving bids 19 mi. stone and clay paving, 38,000 cu.yd. grading. $30,000. E. V. Camp and associate, Decatur Court House, Atlanta, Ga., engrs.

Fla., West Palm Beach—Oct. 3, by C. H. Holtshaw, engr. Palm Beach Co. resurfacing 19,000 sq.yd. Ocean Boulevard, rock. $28,000.

Alabama—Oct. 23, by State Hy. Dept., Montgomery, improving 20.232 mi. Montgomery-Selma Rd., Federal Aid Project 139, Lowndes Co., 36 acres clearing, 214,821 cu. yd. common excav. and borrow, 115,000 sta. yd. overhaul, 55,000 cu.yd. local gravel surfacing, 150,000 half mi. units overhaul, 8,000 cu.yd. gravel screened, 30,000 sq.yd. mixing sand clay and gravel, 975 cu.yd. Class A concrete, etc. W. E. Keller, state highway engr.

Miss., Lexington—Oct. 5, by City Clerk, City Hall, grading and paving various streets, 14,304 sq.yd. rock asphalt, asphalt macadam or rein.-con., and preparing old gravel base, 11,683 cu.yd. earth excav., etc. $47,500. W. S. Hawkins, Greenwood, engr. Noted July 28.

Miss., Lexington—Oct. 15, by Holmes Co., grading and bridging 6.388 mi. Federal Aid Project 137 B, between here and Durant. $41,785. H. C. Dietzer, c/o State Highway Dept., Jackson, engr.

Miss., Meadville—Oct. 17, by Franklin Co., gravel surfacing 8.514 mi. Federal Aid Project 150, between here and Summit, 12 ft. $63,754. H. C. Dietzer, State Highway Dept., Jackson, engr.

Louisiana—Oct. 11, by State Hy. Comn., Reymond Bldg, Baton Rouge, 11.572 mi. Sect A and 7.122 mi. Sect. B, Winnfield-Colfax Highway, Federal Aid Project 139, Winn Parish, washed gravel, sand, clay, gravel or broken stone. J. M. Fourmy, ch. engr.

Louisiana—Oct. 11, by State Hy. Comn., Reymond Bldg., Baton Rouge, 4.98 mi. State Project 381, Bossier-Doyline-Minden Highway, Webster Parish, also furnishing 5,165 cu.yd. washed gravel. J. M. Fourmy, ch. engr.

Kentucky—Oct. 23, by State Hy. Dept., Frankfort, surfacing **(F. A. P. 41 A, Henderson means Federal Aid Project 41, Sect. A, Henderson Co.)** 4.4 mi. F. A. P. 41 A, Henderson, 18 ft., 29.2 mi. F. A. P. 34 F, Webster, 18 ft. 7.5 mi. F. A. P. 41 F, Hopkins, 18 ft., 9.2 mi. F. A. P. 41 G, Hopkins, 18 ft.; grading 4 mi. F. A. P. 109, Henderson, 24 and 28 ft., 2.6 mi. F. A. P. 62 B, Knox, 24 ft., 7.32 mi. F. A. P. 102, Breathitt, 24 and 28 ft.; reconstructing 5.795 mi. State Project 10 A, McLean, 18 ft. J. Boggs, ch. engr.

O., Columbus—Oct. 2, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving 2,485 ft. Buttles Ave., 34 ft., asphalt; 3,902 ft. Rich St., Chittenden, Southwood and Allen Aves., 26 ft., and 1,066 ft. Ohlen and Findley Aves., 24 ft., brick or asphalt; 2,392 ft. Pearl St. and alley west of Pennsylvania Ave., 20 ft. and 2,339 ft.

Streets and Roads (Continued)

2nd alley north of Main St., alley west of Stoddart Ave., alley west of Cypress Ave., and alley north of Gates St., 16 ft.; brick or concrete; also 248 ft. 8 in. sanitary sewer in alley west of Taylor Ave.

Michigan — Oct. 1, by State Hy. Dept., Lansing, grading and surfacing 4.896 mi. State Trunk Line Rd. 10-30, Iosco Co., 9,338 cu.yd. excav., 46,292 sq.yd. gravel. F. F. Rogers, state comr.

Michigan — Oct. 8, by State Hy. Dept., Lansing, grading and surfacing 5.977 mi. State Trunk Line Rd. 25-2, Sect. A, Luce Co., 63,120 sq.yd. asphalt, concrete or bituminous concrete, or 56,107 sq.yd. gravel or stamp sand. F. F. Rogers, state comr.

Michigan—Oct. 12, by State Hy. Dept., Lansing, grading and surfacing 5.148 mi. Federal Aid Project 57, Sect. D, Kent Co., 58,110 cu.yd. excav., 54,503 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state comrs.

Michigan — Oct. 15, by State Hy. Dept., Lansing, grading and surfacing 9.329 mi. State Trunk Line Rd. 27-6, Sects. A and B, Huron Co., 35,010 cu.yd. excav., 99,086 cu. yd. asphalt, concrete or bituminous concrete or 88,755 sq.yd. gravel. F. F. Rogers, state comr.

Ia., Cherokee — Oct. 2, by Auditor Cherokee Co., grading 5.21 mi. primary road south of here, 99,272 cu.yd. excav., 87,800 sta.yd. overhaul, etc. Iowa Hy. Comn., Ames, engrs.

Kan., Marion—Oct. 19, by Clerk Marion Co., grading and brick or concrete surfacing 0.818 mi. New Santa Fe Trail, Federal Aid Project 161, 18 ft., 0.578 mi. New Santa Fe Trail, Federal Aid Project 162, 18 ft. R. K. Walters, co. engr

Kan., Norton—Oct. 22, by Clerk Norton Co. grading 7.528 mi. Pikes Peak Ocean to Ocean Highway, 29½ ft., Federal Aid Project 143, Sect. A. F. E. Foot, co. engr. Noted May 10.

Kan., Oberlin—Oct. 5, by Kansas Eng. Co., engrs., Topeka, constructing 9.62 mi. earth road, Federal Aid Project 165, Sect. A, 28 ft., for Decatur Co. Noted Sept. 20.

Mo., Clayton—Oct. 1, by St. Louis Co., grading and paving 781 squares Chambers St., $21,188, also 1,003 squares Old Florissant St., $17,050, both waterbound macadam. W. Elbring, Court House, engr. Noted Aug. 3.

Ark., Little Rock — Oct. 11, by Comrs. Pulaski Rd. Impvt. Dist. 10, at office Gazette Bldg., graveling 11 mi. Perryville Rd., widening and paving with sheet asphalt Prospect Ave., between 3rd and Victory Sts. and Lee Ave., also paving Markham and Victory Sts. D. A. MacCrea, ch. engr.

Tex., Hemphill—Oct. 18, by W. H. Davidson, judge Sabine Co., grading, gravel surfacing and bridging 7.19 mi. State Highway 21, Federal Aid Project 357-B, 16 ft., $57,-170; 8.38 mi. State Highway 8, Federal Aid Project 327-A, 16 ft., $91,240. W. A. French, San Augustine, co. engr.

Tex., Houston—Oct. 18, by Comrs. Harris Co., grading, etc., Red Bluff Rd. $25,000. Howe & Wise, co. engrs.

Tex., Paris—Oct. 19, by W. D Lawrence, judge Lamar Co., grading and concrete paving 1.99 mi. State Highway 5, Federal Aid Project 380 C, 18 ft., $63,665; 3 mi. State Highway 5, Federal Aid Project 395 B, 18 ft. $89,872. W. M. Fooshee, co. engr.

Okla., Oilton—Oct. 2, by city clerk grading and paving Main St., 16,200 sq.yd. concrete, 7,800 lin.ft. concrete curbing and 5,100 cu.yd. excav. $65,000. Benham Eng. Co., Gumble Bldg., Kansas City, Mo., engrs. Noted May 10.

Okla., Sayre — Oct. 1, by T. J. Means, city clk., grading and paving Cedar, 2nd and 3rd Sts., 8,100 sq.yd. concrete, 5,350 lin.ft. curbing, etc. $37,500. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 20.

Calif., Newport Beach — City Trustees taking bids paving portions of Ocean, Santa Ana, 12th St., etc., 10,020 cu.yd. excav., 28,238 sq.ft. 6 in. concrete, 75,722 sq.ft. 8 in. concrete, etc. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, consult. engr. Noted Jan. 25.

Calif., San Diego—Oct. 8, by Supervs. San Diego Co., paving 4.59 mi. Coronado Strand, 18 ft., 4 in. Warrenite or Willite on present oil macadam surface or 5 in. portland cement concrete with surface removed; paving 3,300 ft. National Ave. between National City and Chula Vista, 18 ft., 6 in. rein.-con., and building overflow curtain wall. G. E. Heath, co. engr.

Calif., South Pasadena (Pasadena P. O.)—Oct. 8, by City Trustees, N. A. Hewitt, clk., curbing, paving, building sidewalks and sewers in portion of Grevelia St., 67,-400 sq.ft. 3 in. oiled macadam, 13,300 sq. ft. concrete gutter, etc.; portion of Fremont Ave., 81,000 sq.ft. 5 in. concrete pavement, etc.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, Boro pres., Boro Hall, Sept. 20, repaving with permanent asphalt (1) Calyer St. (2) Fulton St. (3) Hinsdale Ave. (4) Park Pl. (5) 73rd St. (6) 86th St.; repaving with grade 1 granite (7) 73rd St.; grading, curbing and flagging (8) West 8th St., from Sicilian Asphalt Paving Co., 41 Park Row, New York, (1) $3,092 (2) $41,474; Cleveland Trinidad Paving Co. Flushing, (3) $33,078 (4) $11,753; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (5) $11,164 (6) $53,777; Galco Contg. Co., Inc., 745 Dean St., (7) $6,437; W. J. McHale Contg. Co., 1250 Jefferson St., (8) $3,277. Noted Sept. 13.

N. Y., Tonawanda — Grading, curbing, paving and building storm sewers in crosstown boulevard, from J. Schaaf, 201 Norwood Ave., Buffalo, Proposal 1 $978,500, Proposal 2 $1,017,500; F. J. Mumm, 176 Best St., Buffalo, Proposal 1, $986,753; D. Schoentag Co., Inc., Saugerties, Proposal 1, $993,857, Proposal 2 $1,003,573; Meyer & Meyer Corp., Lancaster, Proposal 2, $1,-021,000. Noted Aug. 30.

N. J., Trenton—Bd. Freeholders Mercer Co., Sept. 18, asphalt paving 5,230 sq.yd. Hamilton Ave, Hamilton Twp., and 9,600 sq.yd. Parkway Ave., Ewing Twp., incl. 6,000 ft. concrete curb and gutter, from Gallena-Poole Co., 146 East Front St., $28,-270 and $49,723 respectively. Noted Sept. 13

Pa., Phila.—Dept. Pub. Wks., Sept. 11, grading (1) C and Ruscomb Sts. (2) Kingessing St. (3) 55th St., asphalt pavements on (4) Allman St. (5) Gaul and Miller Sts. (6) Godfrey St. (7) Larchwood St. (8) Limekiln Ave. (9) Palmetto St. (10) York St., redressed granite block repaving (11) Delaware Ave. (12) 13th St. country road improvements on (13) G St., furnishing material for repairing bridges (14) structural steel (15) wood block (16) creosoted lumber (17) constructing dumping platform at Green St. Wharf (18) grading for West League Island Park bathing beaches, from T. L. Flanagan, 531 East Girard St., (1) $1,145 (12) $37,725; T. P. Lee, 5629 Cherry St., (2) $5,237; E. A. Mullen, 5512 Vine St., (3) $7,132; Barber Asphalt Paving Co., 239 North 30th St., (4) $2,210 (5) $6,627 (6) $6,846 (7) $5,549 (8) $4,512 (9) $2,480 (10) $1,404; Acchione & Canuso, 804 South 12th St., (11) $7,478 (13) $15,620; Montgomery Iron & Steel Co., 918 Berks St., (14) $4,045; Republic Creosoting Co., 1614 Merchants Bank Bldg., Indianapolis, Ind., (15) $1,805 (16) $4,954; H. E. Eyre, 1212 North Delaware Ave., (17) $15,145; J. Meehan & Son, 916 West Dakota Ave., (18) $1,725.

Delaware—State Hy. Dept., Dover, paving, etc., from Broadcreek Contg. Co. of Maryland, Elkton, Md., 9.622 mi. Contr. CK-18, through Clayton, 1,350 cu. yd. excav. $1.50, 1,100 cu.yd. concrete $16. etc., total $20,660; from Highway Eng. & Constr. Co., Shelbyville, 2.16 mi. Contr. No. CS-26, Bridgeville-Clarks Cross Rds., 6,500 cu.yd. excav. $1.25, 3,250 cu.yd. concrete $15, etc., total $61,231, 1 mi. Constr. CS-26, through Greenwood, 3,200 cu.yd. excav. $1.25, 2,375 cu.yd. concrete $15, etc., total $43,643. Noted Sept. 13.

O., Cleveland—Cuyahoga Co. Sept. 12, paving Miner Rd., from E. Gedney, Ansel Rd., macadam $36,422, concrete $45,332. Noted Sept. 6.

Michigan — State Hy. Dept., Lansing, grading and surfacing 9.8 mi. Federal Aid Project 105 Iron Co., 93,429 sq.yd. gravel, from J. Long, Iron River, $66,053, 5.319 mi. Federal Aid Project 69, Sects. C and D, Livingston and Ingham Counties, 61,767 sq. yd. concrete, from Charlevoix Abstract & Eng. Co., Charlevoix, $138,713. Noted Aug. 30 and Sept. 17.

Michigan—State Hy. Dept., Lansing, grading and surfacing 1.956 mi. State Trunk Line Rd. 12-38, Dickinson Co., from A. Carlson, Menominee, $62,861. Noted Sept. 13.

Mich., Detroit—Grading and paving with 3½ in. sheet asphalt on 8 in. concrete on (1) 6,000 sq.yd. Canfield Ave., Sect. 1, (2) 5,800 sq.yd. Canfield Ave., Sect. 2, (3) 1,100 sq.yd. Hussar St. (4) 4,800 sq.yd. Kentucky Ave. (5) 3,200 sq.yd. Klein Ave. (6) 2,600 sq.yd. Longwood Ave. (7) 7,500 sq.yd. La Salle Ave. (8) 19,800 sq.yd. Monica Ave. (9) 12,050 sq.yd. Six Mile Rd. (10) 13,900 sq.yd. Seven Mile Rd. (11) 2,800 sq.yd. Yosemite Ave., from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $37,809 (2) $37,458 (3) $7,269 (5) $14,648 (11) $18,555; M. R. Hanna Co., 1430 Natl. Bank Bldg., (4) $29,951 (7) $44,915 (8) $115,106 (9) $72,-337 (10) $83,523; Cooke Asphalt Paving Co., 1260 Penobscot Bldg., (6) $13,496.

Wyoming—State Hy. Comn., Cheyenne, Sept. 14, grading and surfacing 10.87 mi. Bosler-Lookout Rd., Lincoln Highway, Federal Aid Project 156 A, Albany Co., from H. C. Lallier Constr. Co., Hudson, Colo., $54,990. Engrs. est. $55,000.

Tex., Newton — Newton Co. grading, gravel surfacing, etc., 20.94 mi. State Highway 7, Federal Aid Project 339, from D. Word, Itasca, $191,133. Noted Aug. 30.

Ariz., Phoenix—Paving Culver St. from Central Ave. to 12th St., Dist. 21-5, from Phoenix Tempe Stone Co., Home Builders Bldg., 19,316 sq.yd. Spec. 26AA paving $2.455 sq.yd. Spec. 30A paving $2, 19,772 sq. yd. grading $0.25, 9,631 lin.ft. combined curb and gutter $1.40, etc., total $67,248.

Wash., Seattle—Paving, etc., West 65th St., et al., and East 61st St., et al., from Florito Bros., 3950 6th St. N.W., 16,390 sq.yd. 6 in. concrete at $1.65 per sq.yd., 1,425 lin.ft. asphaltic concrete curbing $0.60, 8,190 lin.ft. concrete curbing $0.35, 4,100 cu.yd. earth excav. $0.65, total $46,694.

Calif., Arcata—Improving 7th, 9th and H Sts., etc., from Mercer-Fraser Co., Eureka, 81,870 sq.ft. grading at $0.035, 27,-935 ft. 5 in. asphaltic concrete, $0.225, 42,-000 sq.ft. 2 in. warrenite bitulithic on 4 in. asphaltic concrete $0.225, 5,997 lin.ft. concrete curb $0.55, 8,845 sq.ft. concrete gutter $0.31, etc. Noted Aug. 16.

Calif., Marysville—Yuba Co. graveling 3.5 mi. Woodruff School House Rd., from L. A. Williams, Marysville, $2.10 per cu.yd. Noted Sept. 6.

Calif., Stockton—Paving East Main and East Washington Sts., 191,911 sq.yd. asphaltic concrete, 55,836 sq.ft. sidewalks, 11,412 lin.ft. concrete curb and gutter, from J. E. Johnson, Savings & Loan Bank Bldg., $64,072.

CONTRACTS AWARDED

R. I., Providence — Removing old macadam and replacing 25,000 sq.yd. new bituminous macadam, to Callan Constr. Co., Bristol, $1.38 per sq.yd. Engrs. est. $35,000.

New York — State Hy. Comn., Albany, Sept. 14, constructing 1.08 mi. Repair Contr. 1390, Highway 104, Washington Co., to W. M. Bronk, Hudson Falls, $56,919; 1.03 mi. Repair Contr. 1385, Highway 149, Westchester Co., to L. D. Sullivan Co., Inc., White Bldg., Utica, $53,664; 1.89 mi. Repair Contrs. 1383 and 1384, Highways 865 and 50, and 1.75 mi. Repair Contr. 1387, Highways 587, 54 and 143, Westchester Co., to S. B. Van Wagenen, Inc., Rondout, $134,964 and $97,289 respectively; 3.5 mi. Repair Contr. 3065, Highway 5005 and 427, Jefferson Co., Repair Contr. 3066, Highway 934, Otsego Co., to A. F. McConville, Ogdensburg, $121,745 and $212,264 respectively; 1.71 mi. Repair Contr. 3064, Monroe Ave., Rochester, Monroe Co., to Hendrickson-McCabe Constr. Co., Mercantile Bldg., Rochester, $64,566; 2.91 mi. Repair Contr. 1386, Highways 748 and 609, Dutchess Co., to Mascetti & Holley, 561 South Main St., Torrington, Conn., $123,956; 2.76 mi. Repair Contr. 3067, Highways 39 and 59, Saratoga Co. to Belmar Contg. Co., Proctor Bldg, Troy, $115,187. Noted Sept. 6.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Borough Asphalt Co., 1301 Metropolitan Ave., repaving with sheet asphalt Georgia Ave. $13,389, repaving with permanent asphalt Manhattan Ave. $146,-709; to Cleveland Trinidad Paving Co., Flushing, repaving with permanent asphalt, Schenectady Ave. $17,705; to Cranford Co., 52 9th St., repaving with permanent asphalt Forrest and 67th Sts. $5,706 and $9,627; to Uvalde Asphalt Paving Co., 1 Bway., New York, repaving with sheet asphalt two sections of Prospect Ave. $12,143 and $39,830 respectively; to J. Meehan & Son, 74 Cortlandt St., New York, repaving with grade 1 granite Kent Ave. $45,468; to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., repaving with permanent asphalt Kings Highway and Joralemon St. $124,814 and $9,726 respectively; to F. J. Gallagher, 490 Park Pl., repaving with grade 1 granite Forrest St. $18,333. Noted Sept. 20.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving with bituminous concrete roadway of Myrtle Ave., to W. P. McDonald Constr. Co., 342 Madison Ave., New York, $45,760; concrete curbing and guttering, etc. Benziger Ave., to J. Johnson Sons, 455 Bway., West New Brighton, $6,632. Noted Sept. 20.

N. J., Belvidere—Warren Co. rebuilding 3.5 mi. Hainesburg-Columbia Rd., to Smith Bros., Hackettstown, $39,836. Noted Sept. 6.

Pa., Waynesburg—Greene Co., 11,050 lin. ft. Greensboro Rd., rein.-con., in Monon-

Streets and Roads (Continued)

gahela Twp., to J. I. Dick, Scottdale, $120,815.

Md., Baltimore — Paving streets, Contr. 243-NA, 22,000 sq.yd. asphalt on concrete, to D. Marine Constr. Co., Knickerbocker Bldg., $56,738. Engrs. est. $60,000. Noted Sept. 20.

Va., Petersburg — Paving 25,000 sq.yd. various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $100,000.

N. C., Washington—City paving and improving streets in Washington Park to G. R. Lassiter & Co., Citizens Bank Bldg., Raleigh, $50,000.

Fla., Stark—Bradford Co., grading 12 mi. State Rd. 3, 68,000 cu.yd. excav., etc., to S. R. Johns & Co., Stark, $74,336. Noted Sept. 6.

Fla., Titusville—Brevard Co. improving Allenhurst and Beach Rds. in Road and Bridge Dist. 8, to Langston Constr. Co., Titusville, $112,000; paving 9¼ mi. road to C. H. Fay, $30,000.

Ala., Alabama City—Bitulithic paving 5 mi. Kyle Ave., 20 ft., to Lashley Bros., Chattanooga, Tenn., $38,356.

Miss., Corinth—Grading and paving 9.794 mi. Federal Aid Project 149, to McElrath & Rogers, Grenada, $89,623. Noted Sept. 6.

Miss., Forest—Scott Co. improving 6.785 mi. Federal Aid Project 134, between here and Morton, to Richston Constr. Co., Richston, $57,266. Noted Sept. 6.

Miss., Pittsboro—Calhoupn Co. improving 19.122 mi. Federal Aid Project 152, to McElwrath & Rogers, Grenada, $195,674. Noted Sept. 6.

Miss., Walthall— Webster Co. improving 12.866 mi. Federal Aid Project 157, to McElwrath & Rogers, Grenada, $129,908. Noted Sept. 6.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 9 mi. Sect. A Project 81, St. Francisville-Mississippi Highway West Feliciana Parish, to B. H. Bass, Hazelhurst, Miss., $47,425, also 7.49 mi. Sect. B of above project to F. O. Hamilton, Francisville, $36,815; 3.84 mi. Project 383 Sect. A, to Banta & Mutersbaugh, Lake Charles, $19,663; 2.67 mi. Grand Coteau Loop, St. Landry Parish, to A. M. Wilk, Bunkie, $10,390; Bayou Carencro Bridge on Opelousas-Lafayette Highway, St. Landry Parish, to W. F. Brown, Port Barre, $7,660.

Tenn., Rutledge—Grainger Co., 10 mi. road from Joppa to Clutch Mt., limestone, to R. L. Peters Constr. Co., Knoxville, $65,000.

O., Canton—Bd. Control paving ¾ mi. 9th St., 40 ft., vitr. brick, to H. Corl, 809 7th St. N.W., $38,271, engrs. est. $40,000; about 1 mi. 4th St. N.W., 30 ft., Trinidad asphalt, to Garaux Bros. Co., 415 9th St. S.W., $49,000, $50,000.

O., Canton—Stark Co., improving Whipple Rd. from Canton-Massillon Rd. north to Plain Twp. line, about 1 mi., monolithic type brick, to Wise Bros., Canton, $60,943. Engrs est. $65,000. Noted Sept. 13.

O., Cleveland — Grading, paving, etc. Elbra Court, to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., $3,121; East 131st St., to Gould & Mayback, 16311 Saranec Rd., $17,246; repaving East 18th, East 19th and East 24th Sts., to Highway Constr. Co., 903 Lorain County Bank Bldg., Elyria, $61,529. Work involves 20,150 sq.yd. asphalt, 3,925 sq.yd. vitr. brick, etc. Noted Sept. 20.

O., Lisbon—Columbiana Co., improving 1.13 mi. Goshen Rd., 20 ft., from Salem to Mahoning Co. line, to Ohio Willite Paving and Surfacing Co., East Liverpool, $31,895. Engrs. est. $35,000. Noted Sept. 6.

Indiana—State Hy. Dept., Indianapolis, 5.875 mi. Project 22, Franklin Co., 80,397 cu.yd. excav., to Weintrout Constr. Co., Shelby, $51,204; 6.399 mi. Project 42 B, 82,106 cu.yd. excav., 7.5 mi. Project 42C, 5.048 mi. Project 50A, and 6.551 mi. Project 50B, all in Perry Co., to Ellis & Scamahorn, Rockport, $93,652, $104,273, $57,987 and $47,425 respectively; 5.743 mi. Project 58D, Orange Co., to A. B. Krempp, Jasper, $63,925; 5.054 mi. Project 58A, Crawford Co., to S. M. Cunningham, English, $68,606; 6.2 mi. Project 58C, Crawford and Orange Counties, to Deer & Bergen, Franklin, $43,005; 6.951 mi. Project 60A, Martin Co., to Scott Constr. Co., Indianapolis, $213,748. Noted Aug. 2.

Michigan—State Hy. Dept., Lansing, grading 3.345 mi. State Trunk Line Rd., 43-3, Ionia Co., 65,112 cu.yd. excav., to Hersey Gravel Co., Hersey, $30,057. Bids for surfacing above project rejected. Noted Aug. 30.

Michigan—State Hy. Dept., Lansing, grading 4.197 mi. Federal Aid Project 50, Sect. B, Monroe Co., 41,579 cu.yd. excav., to Closser Bros., 8427 Senator Ave., Detroit, $40,491. Noted Sept. 20.

Michigan — State Hy. Dept., Lansing, grading 5.523 mi. State Trunk Line Rd. 43-4, Montcalm Co., 32,652 cu.yd. excav., to Hillman & Lewis, Mt. Pleasant, $22,626. Bids rejected for surfacing above project. Noted Aug. 30.

Michigan — State Hy. Dept., Lansing, grading and surfacing (**S. T. L. Rd. 79-2, A, Barry means State Trunk Line Rd. 79-2, Sect. A, Barry Co.**) 4.034 mi. S. T. L. Rd. 79-2, A, Barry, to A. J. Hoffman, North Adams, $51,036; 4.146 mi. S. T. L. Rd. 33-4, Oscoda, to Edwards Constr. Co., 1920 Clinton Ave., Saginaw, $35,670; 5.14 mi. S. T. L. Rd. 95-1, Presque Isle, to L. W. Edison, Charlevoix, $62,372; 4.988 mi. S. T. L. Rd. 18-24, Gladwin, to Russell & Russell, Beaverton, $53,673; grading 10.68 mi. S. T. L. Rd. 27-12, A and C, Sanilac, A to Moore-Elmer Constr. Co., Snover, $21,438, C to Westfall, Leach & Westfall, Montrose, $22,774. Noted Aug. 30 and Sept. 20.

Ill., Harrisburg—Grading and gravel surfacing 3,500 ft. roads in Harrisburg Twp., 18 ft., to L. W. Raben, Mount Vernon, Ind., $31,136.

Ia., Anamosa — Jones Co., grading 7.62 mi. Anamosa-Wyoming Rd., 26 ft., to Foley Bros., Anamosa, 106,660 cu.yd. excav. $0.22, 5,700 cu.yd. channel change $0.48, etc.; Jensen & Christensen, Anamosa, 30,690 ft. 6 in. tile $0.122, 540 ft. 8 in. $0.178 and 1,325 ft. 12 in. $0.34, etc. Noted Aug. 30.

Minnesota — State Hy. Dept., St. Paul, 7.3 mi. State Project 3-44, Federal Aid Project 328, 102,000 cu.yd. excav., to P. W. Roark, Thief River Falls, $39,430, 77,600 sq.yd. concrete paving to Ostrand & Hallett, Crosby, $171,632; 20 mi. State Project 10-46, Federal Aid Project 313, 259,000 cu.yd. excav., to M. W. Barnard & Son, 612 Globe Bldg., Minneapolis, $90,151; 11.2 mi. State Project 3-39, Federal Aid Project 327, 296,000 cu.yd. excav., 5 mi. Sect. 1, State Project 44-22, Federal Aid Project 329, 80,000 cu.yd. excav., 8 mi. State Project 44-22, Sect. 2, Federal Aid Project 330, 125,000 cu.yd. excav., and 10 mi. State Project 44-22, Sect. 3, Federal Aid Project 331, 130,000 cu.yd. excav., to Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, $129,576, $81,404, $75,121 and $93,847 respectively. Noted Sept. 13.

Minn., St. Paul—For 2 mi. concrete and 1 mi. asphaltic concrete paving on Wheelock Parkway between Mackubin and Nebraska Sts. and between Edgerton St. and Payne Ave., to Hanlon & Okes, 338 Lumber Exch., Minneapolis, Minn., $176,138.

Minn., St. Paul—Paving 8 blocks Front St., sheet asphalt, and part of Jackson St., brick, to Hanlon & Okes, 338 Lumber Exchange, Minneapolis, $63,448 and $34,385 respectively; 3 blocks Goodrich Ave., 4 blocks Palace St., 9 blocks West 7th St. and part of Jackson St., asphalt, to Fielding & Shepley, 216 University Ave., $14,223, $22,720, $61,999 and $50,000 respectively. Noted Sept. 13.

Minn., St. Paul — Ramsey Co., paving, etc., Centerville Rd. between Edgerton St. and North Birch Lake Blvd., 40,700 sq.yd. concrete paving, 47,500 cu.yd. excav., 194,000 cu.yd. overhaul, etc., to Hanlon & Okes, 338 Lumber Exch., Minneapolis, $133,906. Noted Sept. 20.

Kan., Garnett — Anderson Co. grading 8.474 mi. King of Trails, Project 113, Sect. B, 18 ft., to A. L. Cook, Ottawa, $16,929; draining to Walters, Walters & Walters, Iola, $19,837. No bids received for surfacing. Noted Aug. 16.

Kan., Paola—Grading and paving with asphaltic concrete 3,500 ft. Agate, Walnut, Oak and Chippewa Sts. and 2 alleys, to J. B. Watts, Paola. Engrs. est. $36,000. Noted July 12.

South Dakota—State Hy. Dept., Pierre, paving 0.82 mi. road with vibrolithic, Minnehaha Co., to C. H. Atkinson Paving Co., Watertown, $26,624. Noted Sept. 6.

N. D., Fargo—Cass Co., gravel surfacing 23,395 cu.yd. Federal Aid Project 144, west of Mapleton, to W. H. Noel, Jamestown, $40,329.

N. D., Mandan—For 42,000 sq.yd., reinforced concrete, paving, to Woodrich Constr. Co., 1141 Metropolitan Life Bldg., Minneapolis, Minn., $160,000.

N. D., Napoleon—**Logan Co., grading 8 mi.** Federal Aid Project 188, 63,000 cu.yd. excav., etc., to H. Knudson, Adrian, $29,517. Noted Sept. 6.

Wyoming—State Hy. Comn., Cheyenne, (1) grading and surfacing (2) building structures on 8.4 mi. Clearmont-Cadiz Rd., Federal Aid Project 149, Sheridan Co., to C. Waegele, U-Cross, (1) $38,499, to Security Bridge Co., 502 North 32nd St., Billings, (2) $49,915; grading, surfacing and building culverts on 7.4 mi. Cover Cut-Kirby Rd., Yellowstone Highway, Federal Aid Project 141, Hot Springs Co., to P. Sawyer, Thermopolis, $57,243. Noted Aug. 2 and Sept. 6.

Wyo., Cheyenne — Grading, curbing and paving 4,000 ft. 18th St., 40 and 50 ft., to A. H. Read, Omaha, Neb., $59,400. Noted Aug. 23.

Missouri—State Hy. Dept., Jefferson City, grading roads (**S. P. 16-7 Newton means State Project Route 16, Sect. 7, Newton Co.**) 2.386 mi. S. P. 16-7, Newton, 3.817 mi. S. P. 16-9, Newton and 5 mi. S. P. 16-10 Barry, to Kelly & Underwood, Granby, $10,606, $17,550 and $6,758 respectively; 3.976 mi. S. P. 5-1, Putnam, and 5 mi. S. P. 31-2, DeKalb, to L. W. Spengler, Mexico, $22,397 and $26,174 respectively; 4.989 mi. Federal and S. P. 234A and 4.948 mi. Federal and S. P. 234B, DeKalb, to Land Constr. Co., Ballinger Bldg., St. Joseph, $33,533 and $30,546 respectively; 4.202 mi. Federal and S. P. 205B, 4.202 mi. Federal and S. P. 205B, 2.599 mi. Federal and S. P. 205A, 2.258 mi. Federal and S. P. 205C, and 2.599 mi. Federal and S. P. 205A, all in Buchanan Co., to J. Stanton & Son, 5th and Kiowa Sts., Leavenworth, Kan., $131,113, $20,500, $44,933, $64,156 and $44,933 respectively; 4.943 mi. S. P. 35-7, Cass, 2.34 mi. S. P. 13-14, Ray, 4.94 mi. S. P. 35-6, Cass, 4.656 mi. S. P. 35-8, Cass, and 4.98 mi. S. P. 13-15, Ray, to L. A. Woods Constr. Co., Smithville, $19,590, $12,072, $16,322, $32,574 and $24,946 respectively; 4.451 mi. S. P. 10-18, Carroll, 2.784 mi. S. P. 10-19, Carroll, 1.462 mi. S. P. 14-85, St. Louis, and rock asphalt surfacing 178,508 sq.yd. S. P. 14-85, St. Louis, to E. C. Johnson, Carrollton, $7,605, $9,388, $14,465 and $20,885 respectively; 2.147 mi. S. P. 12-42, Osage, to Birmingham & Terry, Vienna, $5,381; 3.37 mi. S. P. 1-107, Newton, to J. P. Wolfenbarger, Neosho, $9,835; 0.606 mi. S. P. 70-4, Madison, to C. T. Foggle Constr. Co., Jefferson City, $8,204; 1.108 mi. S. P. 12-43, Gasconade, and 4.242 mi. S. P. 29-1, Worth, to A. L. Cook, Ottawa, Kan., $26,553 and $23,224 respectively; 4.919 mi. S. P. 3-3, and 4.606 mi. S. P. 3-4, both Mercer Co., to M. Haase, Trenton, $24,219 and $19,020 respectively; 1.704 mi. S. P. 47-11, Warren, to J. B. Turner & Co., Warrenton, $26,414; 4.789 mi. S. P. 15-62, Miller, to G. R. De Graffenreid, Bagnell, $17,659; 3.136 mi. S. P. 10-17, Carroll, to A. W. Mosley, Gilliam, $8,675; 2.258 mi. Federal and S. P. 205C, Buchanan, to H. Schmidt, 3108 Jule St., St. Joseph, $43,663; 5 mi. S. P. 1-5, Atchison, to G. W. Condon Co., 510 Farnum Bldg., Omaha, Neb., $39,084; 0.453 mi. S. P. 3-36, Lafayette, to A. J. Cosby, Leeds, $21,392; 1.186 mi. S. P. 32-30, St. Francis, to Smith & Creech Constr. Co., St. Louis, $18,888; 4.318 mi. S. P. 5-37, Howard, to Highway Constr. Co., Webb City, $60,001; 3.746 mi. Federal and S. P. 233C, Livingston, to Callahan-Walker Constr. Co., 322 Peters Trust Bldg., Omaha, Neb., $56,177; 3.593 mi. Federal and S. P. 167F, Bates, to Western Bridge Co., Harrisonville, $34,853; 4 mi. S. P. 2-2, Jackson, to W. R. Ross Constr. Co., Kansas City, $127,383; 3.421 mi. S. P. 55A-2, Mississippi, to R. L. Williams, Wyatt, $73,372; 4.171 mi. S. P. 8-70, Marion, to Cameron-Joyce Co., Keokuk, Ia., $63,717; 3.723 mi. S. P. 5-91, Douglas, to Summerfield-Jones, Billings, $24,874. Noted Sept. 20.

Mo., Marysville—Grading, paving, curbing and guttering 2,350 ft. West 3rd St. and Grand Ave., 6,207 sq.yd. vitr. brick on concrete, etc., to Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, $24,665. Noted Mar. 15.

Ark., Forest City—St. Francis Co., grading and paving 6½ mi. Rd. Impvt. Dist. 12, 38,000 cu.yd. earth excav., 16,600 tons gravel, to S. J. Jones Constr. Co., Memphis, Tenn. Engrs. est. $75,000. Noted Sept. 13.

Ark., Lake Village — Graveling 17 mi. road from Montrose to Luna Landing Rd., to M. McMurray, Texarkana, and Levinson Constr. Co., Dermott, $110,000. Engrs. est. $115,000.

Tex., Austin — Travis Co. grading and bridging 7.92 mi. Highway 20 A, Fredericksburg Rd., 18 ft., to H. J. Evans, 500 West 15th St., $39,320.

Tex., Brenham—Washington Co. grading 17.3 mi. State Highway 36, Federal Aid Project 358, 24 ft., to L. F. McMillian, 4213 Ave. D, Austin, $46,047; constructing bridges and draining same, to Austin Bros. Bridge Co., Coombs St., Dallas, $72,413. Noted Sept. 20.

Tex., Houston—**Paving 12,800 sq.yd.** Sunset Blvd., bituminous, to S. Shambaugh, Larenden Bldg., $45,765.

Streets and Roads (Continued)

Tex., Pittsburg—Camp Co. grading, surfacing with crushed iron ore rock base, bituminous topping and constructing rein.-con. bridges on 6.19 mi. State Highway 11, 18 ft., to Womack Constr. Co., Sherman, $147,336. Noted Sept. 20.

Tex., Sonora—Sutton Co. grading 22.7 mi. and gravel surfacing 1½ mi. on Del Rio-Canadian Highway, 16 ft., to Larkin & Son, Ft. Worth Pike, Dallas, $134,868. Noted Aug. 23.

Okla., Davis—Grading and paving Main St., 5,530 sq.yd. concrete, etc., to Cook & Cone, Ardmore, $22,137. Noted Sept. 13.

Okla., Tulsa—Tulsa Co., 3 mi. concrete road near Collinsville, to Highway Constr. Co., Tulsa, $85,000.

Washington—State Hy. Comn., Olympia, surfacing with crushed rock or crushed gravel 11.6 mi. Central Washington Highway from Pasco to Eltopia, to J. E. Edwards, Spokane, $57,933; concrete paving 1 mi. Ocean Beach Highway, from Kelso west, Cowlitz Co., to Yakima Paving Co., Yakima, $42,583. Noted Aug. 30.

Wash., Kelso—Paving in Dist. 48, 41,320 cu.yd. excav., 6,543 cu.yd. gravel surfacing, 136,377 sq.ft. of 4 in. concrete sidewalks, etc., to United Contract Co., Northwest Bank Bldg., Portland, $86,599; paving, etc., in Dist. 52, 12,105 sq.ft. cement sidewalk, 9,882 sq.yd. 8 in. concrete paving, etc., to Yakima Paving Co., State Bldg., Tacoma, $43,580. Noted Sept. 6.

Wash., Seattle—King Co. paving 4 mi. Renton-Maple Valley Rd., 47,080 sq.yd. concrete, 8 in. at center, 6 in. at edges, 20,000 cu.yd. earth excav., to Fiorito Bros., 3950 6th St., N. W., $127,000. Engrs est. $130,000. Noted Aug. 30.

California—State Hy. Dept., Sacramento, grading and graveling 3 mi. road between 1/5 mi. south of Benito River and Paharo River bridge, San Benito Co., to Granite Constr. Co., Watsonville, $76,947. Noted Sept. 20.

Calif., Fresno—Fresno Co. improving 9.7 mi. road, 14,729 cu.yd. earthwork, 822,755 sq.ft. 4 in. asphaltic concrete, etc., to Thompson Bros., Divisadero and G Sts., $144,160. Noted Sept. 20.

Calif., Marysville—Yuba Co. will grade and reconstruct road from state highway to Jaynes Ranch, by day labor. $25,000. Former bids rejected. Noted Aug. 23.

Industrial Works

PROPOSED WORK

Conn., Hartford—Long Bros., State St., having plans prepared by F. C. Walz, archt., 407 Turnbull St., 1 story, 60 x 240 ft., rein.-con. and brick garage, plain foundation, Market St. $40,000.

Conn., Rocky Hill—Belamose Corp., 303 5th Ave., New York City, plans 1 story and basement, 140 x 160 ft. factory, brick and timber, two 2 story storehouses, brick and steel, and 1 story and basement, 50 x 70 ft. boiler house, brick and steel, all plain foundations, here. Private plans.

N. Y., Buffalo — Kremer & Lehr, 467 Spring St., having plans prepared by L. R. Veatch, Prudential Bldg., 9 story, 35 x 80 ft. malt house, rein.-con., brick and steel. $150,000.

N. Y., North Tonawanda—Amer. Kardex Co., Inc., Main St., plans addition to plant. To exceed $100,000.

Va., Suffolk—Planters Nut & Chocolate Co. plans 5 story, 80 x 150 ft., steel and tile factory, concrete foundation. $250,000. Engineer and architect not selected.

N. C., Burlington—Queen Anne Textile Co., plans to construct and equip cotton mill. $1,000,000. W. H. Morton, Adams, Mass., pres. J. M. Cook, Burlington, vice-pres.

N. C., Leaksville—Marshall Field Corp., 22 East Washington St., Chicago, plans 5 story and basement, 116 x 216 ft., warehouse. $175,000.

Fla., Tampa—See "Miscellaneous."

La., Bogalusa—Bogalusa Paper Co., subsidiary of Great Southern Lumber Co., Whitney Bldg., New Orleans, plans 2 to 6 story, 200 x 600 ft. concrete, brick and steel plant, here. $750,000.

La., Monroe—Acme Carbon Mfg. Corp., Ouachita Natl. Bank Bldg., plans thirty 12 x 120 ft. burning houses, 25 x 75 ft. warehouse, 30 x 50 ft. packing house, 20 x 30 ft. machine shop, etc., all steel. $125,000.

Tenn., Ashland City — Dark Tobacco Growers Assn., Hopkinsville, Ky., soon takes bids warehouse, here. $40,000.

Tenn., Memphis — Ford Motor Co., 740 Union Ave., acquired 40 acre site on Riverside Blvd. for new assembly plant and buildings. C. Alexander, local representative.

Ky., Ashland — Ashland Sanitary Milk Co. plans 2 story brick plant, 34th and Winchester Sts. $50,000.

Ky., Louisville—Standard Sanitary Mfg. Co., 6th and Shipp Sts., having plans prepared by F. Erhart, archt., Norton Bldg., 1 story, 65 x 200 ft., brick and steel shop. $75,000.

O., Cleveland—City Ice & Fuel Co., Cadilac Bldg., having plans prepared by A. C. Bishop & Co., Guardian Bldg., 1 story, 70 x 158 ft., brick, steel and concrete plant, East 124th St. and Union Ave. $60,000.

O., Cleveland—Eaton Axle & Spring Co., East 65th St. and Central Ave., plans brick factory. $100,000. G. S. Rider & Co., Century Bldg., archts.

O., Cleveland—A. W. Haiman, Society for Savings Bldg., having plans prepared by A. Sogg, 319 Hippodrome Annex, 3 story, 65 x 120 ft., brick and concrete garage, 1718 East 18th St. $100,000.

O, Cleveland—R. C. Patton and R. T. Hisey, 536 Engineers Bldg., having plans prepared by L. Skolnik, Sixth St. Clair Bldg., 1 story, 45 x 280 ft. garage, brick and steel. $60,000.

O., Cleveland—Richman Bros., 1600 East 55th St., having plans prepared by Christian, Schwarzenberg & Gaede, 1900 Euclid Ave., 2 story and basement (ultimately 8 story), 65 x 200 ft. factory addition, brick, steel and concrete, 1600 East 55th St. $125,000.

Wis., Berlin—Berlin Tanning & Mfg. Co. plans to rebuild 3 story, rein.-con., brick and steel tannery, plain foundation, recently destroyed by fire. $60,000. C. H. Boettge, pres. Engineer and architect not selected.

Wis., Black Earth—Lakeside Mfg. Co. plans 2 story, brick, rein.-con. and steel factory, plain foundation. $50,000. Engineer and architect not selected.

Wis., Cashton—Danish Pride Milk Products Co., 608 North 8th St., Sheboygan, plans 2 story, brick, rein.-con. and steel condensory, plain foundation, here. $55,000. Engineer and architect not selected.

Wis., Madison—Piper Bros. Co., c/o S. Piper, mgr., 31 North Pinckney St., plans 2 story and basement, 60 x 150 ft., brick, rein.-con. and steel bakery, plain foundation, Washington St. $50,000. Engineer and architect not selected.

Wis., Plymouth—J. E. Curtiss plans 2 story garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Prairie du Chien—General Cigar Co., c/o B. Shannon, mgr., Portage, having plans prepared by Parkinson & Dockendorff, Linker Bldg., La Crosse, 2 story, 71 x 132 ft., brick, rein.-con. and steel plant, plain foundation. $40,000.

Wis., Racine—Wisconsin Incubator Co., 18th and Holborn Sts., having plans prepared by W. J. Redden, 2819 Arlington Ave., 2 story, 50 x 100 ft., brick and timber warehouse, plain foundation. $40,000.

Wis., Rice Lake — C. O. Ronning Co. rescinded contract 2 story and basement, 60 x 160 ft. brick and concrete garage, plain foundation. Will readvertise later. $60,000. Noted July 26.

Wis., Stratford—Stratford Canning Co. plans 2 story, brick, rein.-con. and steel plant. $45,000. Engineer and architect not selected.

S. D., Rapid City—H. E. Swander having plans prepared by J. C. Ewing, Rapid City, 2 story and basement, 75 x 140 ft. rein.-con., brick and steel garage. $40,000.

Tex., Amarillo — Amer. Metal Co., c/o Chamber of Commerce making plans smelter plant. $500,000. Private plans.

Tex., Amarillo—New Jersey Zinc Co., c/o Chamber of Commerce, having plans prepared plant. $500,000. Private plans.

Tex., Dallas—J. E. Morris, 120 Lancaster St. plans 1 story, 75 x 185 ft., concrete and brick garage, 9th and Lancaster Sts. $50,000. Engineer and architect not announced.

Tex., Dallas—Ford Motor Co., Highland Park, Mich., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 2 story, 150 x 200 ft., rein.-con and brick plant, plain foundation, here.

Calif., Fresno — Richfield Oil Co., Van Nuys Bldg., Los Angeles, plans warehouse and service stations in various sections of city. $200,000 or more.

Calif., Los Angeles—J. Delmas having plans prepared by Walker & Eisen, archts., Pacific Finance Bldg., 8 story and basement, 150 & 150 ft., rein.-con. garage, 6th St. and Kenmore Ave. $500,000.

Calif., Los Angeles—Fidelity Fireproof Storage Co., 1836 Arapahoe St., having plans prepared by E. T. Flaherty & Co., I. W. Hellman Bldg., 6 story, 125 x 250 ft. warehouse, probably rein.-con., Manhattan and 62nd Sts.

Calif., Los Angeles—W. M. McGee, 325 Los Angeles Bldg., plans 8 story warehouse, probably rein.-con., vicinity Slausson St. and Central Ave. To exceed $500,000.

Calif., Los Angeles—A. C. Vaughn, Detwiler Bldg. (representing interests) plans rein.-con. garage, approximately 6 story, 6th and Kenmore Ave. To exceed $100,000.

Calif., Oakland—Pacific Spring Bed Co., 180 New Montgomery St., San Francisco, purchased 3 acre site here and plans plant.

Calif., San Francisco—Baker-Hamilton & Pacific Co., 700 7th St., plans warehouse, offices, etc., 137 x 550 ft., about 6 story, rein.-con., Beale St. between Bryant and Brannan Sts. $1,000,000.

Calif., San Francisco—Grinnell Co., 453 Mission St., having plans prepared by Austin Co., Santa Fe Bldg., 1 and 2 story, 90 x 240 ft. factory, brick, concrete and steel, 5th and Brannan Sts.

Calif., San Francisco—L. R. Lurie, 315 Montgomery St., having plans prepared by O'Brien Bros. Inc., 315 Montgomery St., 3 story and basement, 47 x 137 ft. rein.-con. warehouse, Fremont St. near Folsom St., $65,000; 3 story and basement, rein.-con. warehouse, Fremont St near Harrison St., $50,000.

Calif., San Francisco—L. R. Lurie, 315 Montgomery St., having plans prepared by O'Brien Bros., Inc., 315 Montgomery St., 2 or 3 story and basement, rein.-con. warehouse, 12th St. between Howard and Folsom Sts. $40,000 or more.

BIDS DESIRED

Md., Baltimore—Oct. 6, by G. R. Callis, archt., Amer. Bldg., 8 story, 60 x 250 ft. publishing plant, rein.-con. and brick, Pratt and Commerce Sts., for Baltimore News & American, Fayette and Calvert Sts. Noted July 19.

N. C., South Rocky Mt.—Oct. 10, by Atlantic Coast Line R.R., Atlantic Coast Line Bldg., Wilmington, 1 story, 100 x 320 ft. and 2 story, 50 x 150 ft. coach shop; 1 story, 100 x 320 ft. and 2 story, 50 x 200 ft. paint shop, concrete, brick and steel. Noted April 5, under "Railways."

Ill., Chicago—Henschien and McLaren, archts., 1637 Prairie Ave., receiving bids 3 story canning factory for Foell Supply Co., 331 West 22nd Pl. $125,000.

Ill., Chicago—C. W. Lampe, archt., 155 North Clark St., receiving bids 1 story, 112 x 150 ft. factory, rein.-con., brick and steel, Adams St. and California Ave., for J. D. Wallace & Co., 1401 West Jackson Blvd. $50,000.

Wis., Ashland—Ashland Daily Press, c/o J. Chopple & Co., 321 Erd Ave. W., taking bids 2 story and basement, 64 x 100 ft., brick and concrete plant, plain foundation. $50,000. Private plans.

Wis., Cedar Grove—Dick & Bauer, archts., 811 State St., Milwaukee, taking bids and opens same about Oct. 4, 2 story and basement, 32 x 100 ft., concrete factory, plain foundation, for Cedar Grove Shoe Mfg. Co. $42,000.

Wis., Cleveland—N. J. Johannes, Knellsville (P. O. Port Washington), taking bids 1 story, 50 x 95 ft., brick and tile factory, plain foundation. $40,000. Private plans.

Wis., Milwaukee—Milwaukee Coke & Gas Co., 187 Greenfield Ave., taking bids and opens same about Sept. 31, 1 story, 60 x 72 ft., and 4 story, 60 x 82 ft., brick, steel and concrete plant, plain foundation. $50,000. Private plans. Noted Aug. 9.

Kan., Topeka—Jordan Bakery Co. taking bids 3 story and basement, 75 x 100 ft. $100,000. W. E. Grover, Stormont Bldg., archt.

Calif., Los Angeles—A. C. Martin, archt., Higgins Bldg. receiving bids 4 story and basement, 90 x 250 ft., factory, rein.-con., 7th and Utah Sts., for Volker Co., 532 South Spring St. Noted Aug. 30.

Calif., San Francisco — Weeks & Day, archts., 318 Montgomery St., receiving bids 3 story publishing plant, rein.-con., Mission, 5th, Minna and Mary Sts., for Chronicle Publishing Co., Chronicle Bldg., Leland & Haley, 58 Sutter St., engrs.

Que., Quebec—Oct. 10, by Harbor Comrs., cold storage warehouse, power plant and fish storage house, etc.

Industrial Works (Continued)

CONTRACTS AWARDED

Mass., Boston — Hunt-Spiller Mfg. Co., 383 Dorchester Ave., 1 story, 135 x 140 ft., rein.-con. and steel foundry, woodpile foundation, to C. A. Dodge Co., Albany St., Cambridge, $150,000.

Mass., Boston—T. S. and E. J. Owen, 174 Blue Hill Ave., 2 story, 75 x 112 ft. garage, Rand St., to Buckley & Co., 164 Federal St., Boston, $50,000.

Mass., Charlestown (Boston P. O.)—Merchants Terminal Co., 3 story, 60 x 100 ft. shipping building, with 30 x 100 ft. ell, rein.-con and steel, concrete pile foundation, Medford St., to Pultz, Inc., Boston, $160,000. Archts. est. $170,000.

Mass., East Walpole—Bird & Son, 1 story, 80 x 140 ft., brick and steel factory, plain foundation, to Central Eng. & Constr. Co., Pawtucket, $40,000. Noted May 3.

Mass., Fall River—Small Bros. Mfg. Co., 37 Hillside St., 4 story, 84 x 90 ft. factory addition, brick and steel, plain foundation, Hillside St., to A. H. Leeming, 353 Bank St. Archts. est. $60,000.

Conn., Middletown — Standard Oil Co., 26 Bway., New York City, buildings and dock facilities for distributing plant here, to R. H. Beattie Constr. Co., Buffington Bldg., Fall River. Archts. est. $1,000,000. Noted July 26.

N. Y., Buffalo—See "Buildings."

N. Y., New York—Lorington Constr. Co., c/o G. E. Miller, archt. and engr., 1482 Bway., will build 1 story garage, rein.-con., brick and steel, Longfellow Ave. and 139th St., by day labor. Archts. est. $150,000.

N. Y., New York—Maxmoor Realty Co., c/o J. M. Felson, archt. and engr., 1133 Bway., will build rein.-con., brick and steel garage, Jackson Ave., by day labor. $75,000.

Tenn., Knoxville — Planters Tobacco Warehouse Co., Knoxville, 1 story, brick and steel warehouse, to L. A. Hayes Constr. Co., Knoxville, $40,000.

Ky., Louisville—Louisville Petroleum Refining Co., Inter Southern Bldg, will build first unit of oil refining plant, by day labor. $100,000 (ultimate cost $300,000). W. M. Mitchell, pres.

O., Cleveland — Cleveland Laundry Co., 2840 Central Ave., 1 story, 32 x 80 ft. laundry and boiler house, brick and steel, 2840 Carnegie Ave., to W. F. Thompson & Son Co., 5103 Euclid Ave. Archts. est. $40,000.

Ind., Frankfort — Toledo, St. Louis & Western R.R. Co., Pierce Bldg., St. Louis, Mo., 27 stall roundhouse, etc., here, to Bierd, Lydon & Grandpre, Inc., 340 West Harrison St., Chicago, $300,000.

Ill., Chicago — G. F. Marchant & Co., Rockwell and 14th Sts., 1 story, 73 x 124 ft. factory addition, rein.-con., brick and steel, to A. B. Larson Co., 19 South La Salle St. Archts. est. $40,000.

Ill., Freeport—W. T. Rawleigh Co., 101 South Liberty St.; 2 story, 75 x 100 ft. power plant, brick, steel and rein.-con., to A. Zwack, 1301 Central Ave., Dubuque, Ia. Engrs. est. $100,000. Noted Aug. 30.

Ill., Mason — Illinois Coal Corp., Old Colony Bldg., Chicago, general contract 40 x 140 ft. warehouse, 50 x 140 ft. shop, 60 x 60 ft. power plant and hoist engine house 20 ft. high, all 1 story, brick and tile, to H. N. Leighton Co., 127 South 10th St., Minneapolis, Minn., about $150,000.

Wis., Green Bay—St. Joseph's Orphanage, R. 6, 2 story, 38 x 150 ft., brick, rein.-con. and steel boiler house, plain foundation, to Pinchard Bros., 605 George St., $61,000. Archts. est. $50,000. Noted Aug. 30.

Wis., Kenosha—Nash Motors Co., Edward St., general contract 1 story, 210 x 600 ft. storage and loading plant, brick, steel and timber, plain foundation, to T. Stark & Co., 130 Muskego Ave., Milwaukee; steel, to Worden-Allen Co., Port Washington Rd., Milwaukee. Engrs. est. $225,000.

Wis., North Milwaukee—W. P. Schwartzburg, 43rd St. and Hammond Ave., 1 story, 60 x 100 ft., brick and concrete garage, plain foundation, to Coddington Eng. Co., 290 3rd St., Milwaukee. $40,000.

Wis., Rio Creek — Rio Creek Builders Veneer and Woodwork Co., will build 2 story, 52 x 100 ft., timber factory, plain foundation, by day labor. $40,000. M. Bank, pres.

Mo., St. Louis—A. Roy, 4455 Manchester Ave., 1 and 2 story, 98 x 125 ft., rein.-con. and brick garage, Manchester Ave., by day labor. $40,000. Private plans

Mo., St. Louis—St. Louis Coffin Co., 1857 Chouteau Ave., will build 2 and 3 story, 125 x 160 ft., rein.-con. and brick addition to factory, by day labor. $60,000 E. J. Hass, 3228 Magnolia Ave., archt.

Wash., Vancouver—Columbia River Paper Mill Co., 2 story, 80 x 380 ft. mill, steel and tile, Columbia River, to Austin Contract Co., Portland, Ore., cost plus basis. Archts. est. $60,000. Noted Feb. 8.

Calif., San Francisco — Pelton Water Wheel Co., 19th and Harrison Sts., 2 story, rein.-con. factory and office, Florida St., to G. Wagner, 251 Kearny St., percentage basis, about $100,000. Noted Sept. 6.

Que., Windsor—Messrs. Kilgour Bros., 2 story, 90 x 130 ft. brick and timber factory, to Newton & Dakin, Sherbrooke, $200,000. Noted Sept. 20.

Buildings

PROPOSED WORK

Me., Thomaston — Prison — State Dept., Augusta, plans prison buildings, here, to replace those recently destroyed by fire. P. B. Baxter, governor.

N. H., Newmarket—High School—Town having plans prepared by J. A. Bickford Co., 6 Beacon St., Boston, 2 story, 66 x 138 ft, brick and steel. $175,000.

Mass., Boston—Dormitory—Trustees of Harvard Medical School, Longwood Ave., having plans prepared by Coolidge & Shattuck, Ames Bldg., 4 story, 150 x 190 ft., brick and steel, Longwood Ave. $850,000.

Mass., Boston—Hospital—Massachusetts Womens Hospital, had plans prepared by M. Biscoe, 50 Congress St., and takes bids about Oct. 20, 1 story 75 x 150 ft. addition. $150,000.

Conn., Hartford—Apartment—J. P. Nielson, 494 New Britain Ave., had plans prepared 3 story, 60 x 120 ft., brick, plain foundation, Buckingham Ave. $150,000. Private plans.

Conn., Hartford—High School—School Bd., Municipal Bldg., rejected bids 3 story, brick and steel, plain foundation, Maple Ave. Will readvertise. $1,200,000. E. T. Willey, 75 Pratt St., archt. Noted Aug. 30.

Conn., Meriden — Schools — Bd. Educ. plans following schools: East Side Junior High, Miller St., $350,000; North End Primary School, $150,000; 2 story addition to West Grammar School, $150,000; 2 story addition to King St. School, $120,000. Engineer and architect not selected.

Conn., Mystic—Dormitory—Mystic Oral School for the Deaf having plans prepared by Payne & Keefe, Manwaring Bldg., New London, 3 story and basement, 80 x 150 ft., rein.-con. and brick, plain foundation. $265,000. Noted July 26.

N. Y., Brooklyn—Apartment—S. Silk, c/o Slee & Bryson, archts. and engrs., 154 Montague St., having plans prepared 6 story, brick, steel and stone, Joralemon St. $350,000.

N. Y., Buffalo—Hospital—Mercy Hospital, Abbott Rd. and Choate Ave., having preliminary plans prepared 3 story and basement, 200 x 350 ft., rein.-con., brick and stone. $400,000. J. A. Kloepfer, Liberty Bank, member of executive com. Architect's name withheld.

N. Y., Dunkirk—High School—Oct. 24 to vote on $500,000 bonds for addition to high school. Architect not announced.

N. Y., Rochester—School—Bishop Hickey, c/o Catholic Aid Assn., 387 Main St., conducting campaign to raise $650,000 for Aquinas Institute (school for boys).

N. Y., Rochester—University—University of Rochester, 490 University Ave., plans campaign to raise $10,000,000 for new buildings. G. W. Todd, 1050 University Ave., chn. Citizens Comm. Architect not announced.

Pa., Kingston — Club House — Black Diamond Post 395, American Legion, plans club house, Wyoming Ave. $150,000. Engineer and architect not announced.

Pa., Lancaster—School—Bd. Educ. having plans prepared by C. E. Urban, Woolworth Bldg., junior high school, West End. $500,000.

Pa., Meadville—Home-Hospital—Odd Fellows Home Assn., W. C. Moritz, secy., plans 2 story. $250,000. Engineer and architect not announced.

Pa., Oil City—Church—Trinity Methodist Episcopal Church having plans prepared by C. W. Belton & Son, Witherspoon Bldg., Phila., 1 and 2 story, 120 x 130 ft. $200,000.

W. Va., Huntington—Apartment—P. J. Deegan, having plans prepared by R. M. Bates, Jr., 416 11th St., 7 story and basement, 60 x 80 ft., concrete and steel. $200,000.

N. C., Greensboro—Municipal—City plans 4 story, 60 x 90 ft., West Gaston and North Greene Sts. $250,000. P. C. Painter, city mgr. Engineer and architect not selected.

N. C., Morganton — Institutional — State Hospital for Insane, rejected bids for 3 large dormitories, brick. $300,000. Will readvertise. C. C. Hook, Trust Bldg., Charlotte, archt. Noted June 1.

Ga., Atlanta—Resort—E. C. Wachendorff, archt., 620 Forsythe Bldg., takes bids about January or February, brick, concrete and steel, for Blackman, Terrace Co. $225,000.

Fla., Orlando—Hotels—Florida Auto Tel System, Orlando, making plans 17 hotels in various sections state. $1,000,000. Private plans. M. O. Overstreet, Orlando, pres.

Fla., Stuart—Hotel—Oak Park Hotel Co. plans 3 story rein.-con. and steel $150,000.

Fla., Tampa—Hotel—I. T. Roberts, Birmingham, Ala., having plans prepared by M. L. Elliott, Citizens Bank Bldg., for hotel, here. $2,000,000.

Miss., Biloxi—Schools—Plans election to vote on $100,000 bonds for 3 ward schools. Total cost $200,000. $100,000 now available.

La., New Orleans—Store—J. Katzenstein and L. B. Loeb, Shreveport, takes bids about Oct. 8, 5 story, 81 x 150 ft. brick, Texas Ave. $250,000 to $300,000. Jones, Roessle, Oschner & Weimer, Maison Blanche Bldg., archts. Feibleman & Co., Magazine St., lessee.

Tenn., Dyersburg—Depot—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, plans passenger and freight depot, brick, here. $150,000. F. R. Thompson, ch. engr.

Tenn., Lebanon—Schools—Oct. 16, to vote on $150,000 bonds for 2 schools. Engineer and architect not selected.

O., Cincinnati—Apartment—D. G. Ebersole is pres. of new company (name not decided upon), which is having plans prepared by H. Hake, Telephone Bldg., 12 story, 91 x 110 ft., rein.-con., 4th St. and Bway. $1,200,000. Noted Mar. 1.

O., Cleveland—Station, etc.—Cleveland Union Terminals Co., c/o O. P. and M. G. Van Swerigen, Marshall Bldg., having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, 10 and 14 story passenger station and freight terminal, brick, steel and concrete, incl. tracks and bridges leading to building, Public Sq. $60,000,000. H. D. Jouett, 323 Lakeside Ave., ch. engr.

O., Youngstown—Church—Baptist Church plans 5 story, 70 x 150 ft., Gothic type, Boardman St. $500,000. Stanley & Scheibel, Wick Bldg., archts.

Ind., Richmond—Municipal Markets and Assembly Hall—City having preliminary plans prepared by C. E. Werking & Son, Palladium Bldg., and takes bids about Jan. 1, 2 story and basement, 85 x 271 ft. $250,000.

Mich., Detroit — Apartment—Apartments Co., c/o Brown & Derrick, archts., Capitol Theatre Bldg., having plans prepared 10 story and basement, 50 x 150 ft. rein.-con. brick and steel, plain foundation, Jefferson and Hibbard Aves.

Mich., Detroit—Bank—U. S. Bond & Mortgage Co., 312 Majestic Bldg., having plans prepared 8 story and basement, 45 x 120 ft. rein.-con., brick and steel, plain foundation, Shelby and Congress Sts. Engineer and architect not selected.

Ill., Chicago—Apartment—M. P. Morrissey, c/o R. F. France, archt., 155 North Clark St., plans three 3 story, 250 x 330 ft. rein.-con., brick and steel, Oak Park and Erie Sts. $800,000.

Ill., Chicago—Apartment—A. V. Teison, archt., 4804 North Kedzie Ave., preparing plans 3 story, 100 x 100 ft., rein.-con., brick and steel, Diversey Ave. and Abbott Court. $200,000. Owner's name withheld.

Ill., East St. Louis—Theatre—O. Dane, 1403 Locust St., St. Louis, Mo., plans rein.-con. and brick, 2 or more stories, here. $250,000. Architect not selected.

Ill., Mooseheart—Lodge—New York State Assn., Loyal Order of Moose, W. A. Markle, vice-supreme dictator, 134 South Ave., Rochester, N. Y., plans Empire State Bldg., here. $150,000. Architect not announced.

Wis., Madison—Church—First Church of Christ, c/o W. D. Hrestand, chn., 423 Wisconsin Ave., plans 2 story, brick, rein.-con. and steel, plain foundation. $200,000. Engineer and architect not selected.

Wis., Monroe—School—Bd. Educ., c/o M. E. Boltzer, secy., 102 Jefferson St., having plans prepared by E. Tough, Washington Bldg., Madison, 2 story and basement, 60 x 200 ft., brick, rein.-con. and steel, plain foundation.

Wis., Oshkosh—Temple—Local Masonic Lodges combined, c/o J. C. Thompson, chn. building comn., 1304 Ohio St., receiving competitive sketches 4 story and basement.

Buildings (Continued)

100 x 102 ft., brick, stone and concrete, plain foundation. $250,000.

Wis., Waukesha—Hotel—M. Tullgren & Sons Co., archts., 425 East Water St., Milwaukee, soon takes bids 3 story and basement, brick and concrete, plain foundation, Hartwell Ave., for Hotel Silurian, c/o F. Strong, 151 South East Ave. $500,000.

Ia., Sioux City—Hospital—Mother Superior St. Joseph's Hospital, having plans prepared by J. Wheeler, archt., Exchange Bank Bldg., St. Paul, Minn., 5 story and basement hospital addition, 21st and Court St. $275,000. Noted May 10.

Minn., Minneapolis — Auditorium — See "Miscellaneous."

Kan., Leavenworth — City Hall — Voted $200,000 bonds city hall. Engineer and architect not selected. Noted Aug. 30.

Wyo., Casper—Court House—Natrona Co. election Nov. 6 to vote on $500,000 bonds for court house. Garbutt, Weidner & Sweeney, Consolidated Royalty Bldg., archts.

Mo., Columbia—College—Stephens Junior College plans dormitory, brick, stone and rein.-con., also library and study hall, 2 and 3 story. $300,000. Architect not selected.

Mo., Kansas City — School — Bd. Educ. soon takes bids 6 story and basement, 126 x 200 ft., rein.-con., brick, stone and steel. $850,000. C. A. Smith, Finance Bldg., archt.

Mo., St. Louis—School—St. Teresas School Assn., c/o A. Newman, Grand St. near North Market Sts., having preliminary plans prepared 3 story, rein.-con. and brick, Fall Ave. $200,000. Engineer and architect not selected.

Ark., Little Rock—School—School Bd. sold $220,000 bonds for school buildings.

Tex., El Paso—Sanatorium—Homan & Crimen having plans prepared by O. H. Horman, El Paso, 7 story, brick and steel, Cotton Ave. and Erie St. $200,000.

Tex., Ft. Worth — Hospital — City and Tarrant Co. plan hospital on South Main St. $1,000,000. City election soon to vote on $500,000 bonds. Engineer and architect not selected.

Tex., Ft. Worth—Schools—Bd Educ., c/o M. H. Moore, supt., plans $1,000,000 bond issue for new high schools in Arlington Heights, and miscellaneous buildings.

Tex., Texarkana — City Hall — Having preliminary plans prepared 3 story, brick, rein.-con. and stone, Texas Ave. $200,000. Private plans. Noted Sept. 6.

Wash., Seattle — Schools — City having preliminary plans prepared by F. A. Naramore, city archt., for the following buildings, addition to West Seattle High School $190,000, addition to John Muir School $130,000, Dunlap Grade School $120,000, Portage Grade School $120,000, first unit of large intermediate school $150,000. Noted Apr. 4.

Calif., Berkeley — Church — Methodist Episcopal Church, c/o J. N. Score, pastor, 2728 Garber St., plans church, fireproof, Durant St. near Telegraph Ave. $250,000.

Calif., Elmhurst—Theatre and Store—L. J. Toffelmier & Sons, 701 Parrott St., San Leandro, plans 1 story, fireproof, 89th Ave. and East 14th St. $150,000.

Calif., Los Angeles — Church — Ninth Church of Christ Scientist, c/o Milwaukee Building Co., archts., Wright-Callendar Bldg., having preliminary plans prepared for church, fireproof, Normandie and 5th Sts. To exceed $150,000.

Calif., Los Angeles—Hotel—J. Foote having plans prepared by L. L. Jones, 603 Grosse Bldg., 12 story, 60 x 128 ft., rein.-con., Bixel and Ingraham Sts. $600,000.

Calif., Los Angeles—Office—J. B. Fahy, et al., c/o O. H. Neher, archt., Marsh-Strong Bldg., having plans prepared 13 story, 100 x 150 ft., rein.-con. and steel, South Spring St. H. Hasenberger, Marsh Strong Bldg., engr.

Calif., Los Angeles—Store and Loft—Sun Realty Exchange, 5508 South Vermont St., had plans prepared by Curlett & Beelman, Union Bank Bldg., 6 story and basement, (ultimately 12 story) 85 x 160 ft., rein.-con., Olive and 9th Sts.

Calif., Oakland — Administration — Alameda Co. had plans prepared by H. H. Meyers, Kohl Bldg., San Francisco, rein.-con. and terra cotta, on county hospital grounds. $600,000-$700,000.

Calif., Oakland—Store—C. J. Heeseman, 15th and Washingtgon Sts., had plans prepared by H. H. Meyers, Kohl Bldg., San Francisco, 4 story, rein.-con., 13th and Clay Sts. $150,000. Jackson Furniture Co., 14th and Clay Sts., lessee.

Calif., Orange—Jail—City having plans prepared by F. K. Benchley, Benchley Bldg., Fullerton, 3 story, rein.-con. $175,000.

Calif., Redlands—Hotel and Apartment—California Real Estate & Finance Corp., c/o L. L. Jones, archt., Grosse Bldg., Los Angeles, having preliminary plans prepared 4 story, brick, here. To exceed $200,000.

Calif., Sacramento — Auditorium — City plans auditorium. $750,000. H. G. Denton, clk. Engineer and architect not selected.

Calif., San Francisco—Office—See "Industrial Works."

Calif., San Jose—Office, Apartment and Hotel—Weeks & Day, archts., 318 Montgomery St., San Francisco, preparing plans 6-10 story and basement Class A fireproof office, apartment and hotel building. To exceed $150,000. Owner's name withheld.

Calif., San Pedro—Hotel—D. Barnes, c/o O. H. Neher, archt., Marsh-Strong Bldg., Los Angeles, having plans prepared rein.-con. hotel, approximately 15 story, 7th St. and Pacific Blvd., here. To exceed $250,000.

Calif., San Pedro—Hotel—L. De Carlo, c/o L. L. Jones, archt., Grosse Bldg., Los Angeles, had plans prepared 6 story and basement, rein.-con., 7th St., here. $250,000.

BIDS DESIRED

R. I., Providence—Armory—Oct. 1, by J. J. Richards, secy. Comn. of Armory of Mounted Commands, Industrial Trust Bldg., 1, 2 and 4 story, 198 x 536 ft., brick and steel, plain foundation, North Main St. $380,000. W. G. Richards, 17 Exchange St., archt. Noted July 26.

Conn., Bridgeport—High School—Oct. 16, by Bd. Educ., 3 story and basement, brick, steel and concrete, plain foundation, Boston and Central Ave. $900,000. Caldwell, Walker & Beckwith, 886 Main St., archts. Noted Jan. 4.

N. J., Woodbury — School — Oct. 4, by Secretary Bd. Educ., 2 story and basement, 65 x 74 x 188 x 191 ft., rein.-con., brick, steel and limestone, plain foundation, Delaware and Broad Sts. $190,000. Ballinger Co., 12th and Chestnut Sts., Phila., archts.

Miss., Jackson—Office—Oct. 1, by Lamar Life Insurance Co., 10 and 12 story, 80 x 148 ft., rein.-con., brick and steel, concrete pile foundation. $500,000. Sanguinet & Staats, Ft. Worth, Tex., archts. N. W. Overstreet, Jackson, associate archt.

Ky., Winchester—Schools—Oct. 4, by City, high school, grade school and colored school. $150,000. R. M. Bates, Jr., 414 11th St., Huntington, W. Va., archt.

O., Bowling Green—High School—Oct. 9, by W. E. Kleppisch, secy. Bd. Educ., for high school. M. J. Geise, 800½ Main St., Quincy, Ill., archt. Noted July 12.

O., Cleveland—Apartment—J. E. Arnoff, 10111 North Blvd., taking bids and opens same about Oct. 5, 4 story and basement, 37 x 160 ft., brick and timber, Orville Ave $150,000. G. Rudolph, Hunkin-Conkey Bldg., archt.

O., Cleveland—Temple—Oct. 1, by Euclid Ave. Temple Assn., c/o J. Laronge, Williamson Bldg., 1 and 3 story, 88 x 120 ft., brick, steel and concrete addition, East 82nd St. and Euclid Ave. $200,000. Morris & Weinberg, 3226 Euclid Ave., archts.

Mich., Flint—School—Oct. 1, by A. J. Wildanger, secy. Bd. Trustees Bd. Educ., 2 story and basement, 40 ft. high, 67 x 210 ft. and 65 x 100 ft., rein.-con., brick and steel, plain foundation, Saginaw St. $350,000. Malcolmson & Higginbotham Industrial Bank Bldg., Detroit, arcuts.

Mich., Redford—School—Bd. Educ. Redford Union Schools, taking bids 2 story and basement, 66 x 132 ft. rein.-con., brick and stone, plain foundation, Burt and Carlton Aves. $150,000. Verner, Wilhelm & Molby, 603 Book Bldg., Detroit, archts. Noted Aug. 2.

Wis., Madison — Church — E. Tough, archt., Washington Bldg., taking bids 2 story, 60 x 150 ft. brick, rein.-con. and steel, plain foundation, for Parkside Presbyterian Church, 1418 East Dayton St. Noted July 12.

Wis., Waukesha—Hotel—Oct. 2, by M. Tullgren & Sons Co., archts., 425 East Water St., Milwaukee, 3 story and basement, rein.-con. and tile, plain foundation, Hartwell Ave., for Hotel Silurian, c/o F. J. Strong, 151 South East Ave. $350,000. Noted Aug. 31.

Ia., Marion—High School—Oct. 24, by Bd. Educ., 3 story and basement, 66 x 158 ft., rein.-con., brick, tile and stone. $200,000. E. Miller, secy. W. J. Brown, Amer. Trust Bldg., Cedar Rapids, engr. Noted Aug. 23.

Minn., Duluth—Store and Office—Oct. 4, by W. M. Prindle & Co., Lonsdale Bldg., representing Bradley Estate, 4 story and basement, 110 x 115 ft., rein.-con., steel and brick, Superior St. and Lake Ave. $300,000. F. G. German, 407 Exchange Bldg., archt. Noted July 26.

SEWERS, ETC—LOUISVILLE, KY.

Following are lowest three bids opened by Comrs. of Sewerage, July 17, for constructing Napoleon Blvd. sewer and drain and Speed Ave. laterals, S., Contr. No. 14, (A) A. H. Bickel Co., Inc., Louisville, Type B; (B) Frazier-Davis Constr. Co., St. Louis, Mo., Type D; (C) G. W. Jackson-Fitzpatrick Co., Chicago, Type B. The unit bids were as follows:

	A	B	C
4,100 cu.yd. earth excavation and refill	$3.15	.....	$2.6(
3,940 cu.yd. earth excavation and refill	.....	$2.90	.....
5,580 cu.yd. earth excavation and refill	3.65	2.90	3.2(
395 cu.yd. rock excavation and refill	15.00	.....	15.50
382 cu.yd. rock excavation and refill	20.00	.....	15.00
475 cu.yd. rock excavation and refill	.....	12.00	.....
352 cu.yd. rock excavation and refill	.....	15.00	.....
365 cu.yd. class A concrete masonry	30.00	.....	24.50
130 cu.yd. class A concrete masonry	40.00	.....	40.00
100 cu.yd. class A concrete masonry	.....	40.00	.....
135 cu.yd. class A concrete masonry	40.00	40.00	40.00
907 cu.yd. class C concrete masonry	15.00	14.00	19.00
330 cu.yd. class C concrete masonry	.....	15.00	.....
630 cu.yd. hydrated lime class A	.75	.....	.80
235 cu.yd. hydrated lime class A	.....	1.20	.....
1 cu.yd. brick masonry	50.00	32.00	30.00
220 sq.yd. vitrified brick lining	6.00	.....	6.00
1,300 lb. reinforcing bars	.08	.10	.07
70 cu.yd. earth excavation below sewe	.50	4.00	6.00
70 cu.yd. gravel refill below sewer	5.00	5.00	5.00
$7,295.83 A.S.T.M. clay pipe	44%	31%	40%
$10,507.30 manufacturers standard clay pipe	45%	31%	41%
$645.00 pipe for underdrain	50%	35%	43%
1,365 ft. 6 in. laying with plastic comp	.50	.20	.75
3,970 ft. 8 in. laying with plastic comp	.32	.25	.80
1,725 ft. 12 in. laying with plastic comp	.48	.30	.90
2,216 ft. 15 in. laying with plastic comp	.60	.35	1.00
550 ft. 18 in. laying with plastic comp	.72	.55	1.25
993 ft. 21 in. laying with plastic comp	.84	.65	1.50
641 ft. 33 in. segment black sewer	.....	7.00	.....
852 ft. 36 in. segment black sewer	.....	7.35	.....
860 ft. 4 in. laying underdrain	.60	.10	.75
860 ft. 6 in. laying underdrain	.65	.30	1.00
2,000 ft. B.M. sheeting, bracing	50.00	100	50.00
2,310 sq.yd. water bound macadam	1.25	4.00	1.70
125 sq.yd. sheet asphalt	5.50	5.00	6.00
570 sq.yd. bituminous concrete	3.00	5.00	4.00
Making connections	350	2,500	1,000
11 tons 8 in. A.S.T.M. C.I. pipe (lump sum)	200	150	100
5 ft. 8 in. laying c.i. pipe	2.00	5.00	5.00
Cleaning up (lump sum)	500	2,000	1,000
Extended totals	$107,203	$111,470	$111,547

Type "B" monolithic concrete 33 and 36.
Type "D" segment block 33 and 36.

Buildings (Continued)

Ark., Hot Springs—Hotel—Oct. 6, by Mann & Stern, archts., A. O. U. W Bldg., Little Rock, 11 story, 200 x 200 ft., brick, stucco, tile and rein.-con., for Arlington Hotel Co. $2,225,000. Noted May 31.

Okla., Oklahoma City—Schools—Oct. 1, by A. E. Mushrush, clk. Bd. Educ., addition to Classen High School, 18th and Douglass Sts.; 3 story 160 x 220 ft. high school, 33rd and Hill Sts.; 3 story 100 x 150 ft. Junior High School, 9th and Western Sts., rein.-con. $350,000. Layton, Smith & Forsyth, 701 Southwest Natl. Bank Bldg., archts. Noted May 10.

Calif., Santa Rosa—High School—Trustees High School Dist. taking bids and opens same about Oct. 22. rein.-con. and brick. $375,000. W. H. Weeks, 369 Pine St., San Francisco, archt.

BIDS RECEIVED

R. I., Howard—Hospital—State Welfare Comn., Providence, Sept. 20, general contract 4 story, brick, here, from Hope Bldg. Co., Weybosset St., Providence, $124,326.

N. Y., Richmond Hill—School—Bd. Educ., 500 Park Ave., New York, Sept. 18, general construction P. S. 108, brick, steel and stone, plain foundation, Suwanee Ave. and 108th St., here, from P. Cleary, 115 Marion St., Brooklyn, (a) $879,300 (b) $909,300 (c) $959,300. Noted Sept. 13.

N. J., Newark—School—Bd. Educ., City Hall, Broad St., Sept. 12, 3 story, brick, steel and stone, Webster St., general contract from E. M. Waldron, Inc., 27 Central Ave., $187,400; heating and ventilating from Stewart & Farrell, $42,975.

O., Geneva—High School—Bd. Educ., 2 story and basement, 159 x 182 ft., brick and steel, from Yeager & Sons, Danville, Ill., $199,883.

Ia., Iowa City—Hospital—State Bd. Educ., Des Moines, general contract 3 story and basement, rein.-con., brick, tile and stone addition, at State University, here, from J. H. Hunzinger, Davenport, $119,629. Noted Sept. 13.

Minn., Winona—School—State Bd. Control, St. Paul, 3 story and basement, 200 x 210 ft. main building with power plant in basement, rein.-con., tile, brick and stone, here, from L. Fleisher Co., 505 Plymouth Bldg., Minneapolis, $470,000; S. M. Klarquist Sons Co., 745 Security Bldg., Minneapolis, $473,407; J. A. McDonald Constr. Co., 750 Builders Exch., Minneapolis $479,709. Bids rejected, asked to refigure. Noted Aug. 30.

Calif., Los Angeles—High School and Auditorium, etc.—City, constructing Hollywood High School, 2 story and basement, rein.-con and brick, from Kinne-Westerhouse Co., H. W. Hellman Bldg., $294,000.

Calif., Santa Barbara—Schools—City, from D. R. Wagner, Call Bldg., San Francisco, general contract Franklin School, 1 story, brick and concrete, $119,990, assembly hall addition $27,980, Roosevelt School, 1 story, brick and concrete, $133,842. Noted July 26.

CONTRACTS AWARDED

Mass., Cambridge—Dormitory—Trustees of Radcliffe College, 4 story, 90 x 130 ft., brick and steel, to Leighton, Mitchell Co., 99 Chauncy St., Boston, $300,000.

Mass., New Bedford — Hospital — St. Lukes Hospital Corp., 3 story, 45 x 148 ft., brick and steel, to J. W. Bishop, Times Bldg., $150,000.

Mass., Tewksbury — Infirmary — Dept. Health, State House, Boston, 2 story and basement, rein.-con. and brick addition to State Infirmary, plain foundation, to J. Miles & Sons, 393 Main St., Worcester. Engrs. est. $150,000. Noted June 22.

R. I., Pawtucket—Church—M. A. Herbert, Newport Ave., in charge of Church, 2 story, 90 x 150 ft., brick, plain foundation, Newport Ave., to Bovier-Brien Constr. Co., Sayles St., Woonsocket, $153,000. Archts. est. $150,000.

R. I., Providence—Hospital—Trustees of Homeopathic Hospital, 3 story, 45 x 207 ft., brick and steel, to J. W. Bishop Co., Times Bldg., New Bedford, Mass., $185,000.

Conn., New London—Business—F. W. Mercer, 64 Huntington St., 3 story, 50 x 110 ft., brick and steel, plain foundation, State St., to H. Wales-Lines Co., 134 State St., Meriden. Archts. est. $150,000.

N. Y., Brooklyn — Apartment — Annette Bldg. Corp., c/o M. A. Cantor, archt., 373 Fulton St., will build rein.-con., brick, steel and stone, 41st St., by day labor. Archts. est. $200,000.

N. Y., Brooklyn—Apartment—St. Johns Pl. and Plaza St. Corp., c/o W. I. Hohauser, archt. and engr., 116 West 39th St., New York, will build 5 story, brick, steel and stone. Bushwick and Gates Aves., here by day labor. Archts. est. $170,000.

N. Y., Brooklyn—School—St. Michaels Parish, c/o Elliott, Lynch & McKenna, archts. and engrs., 347 5th Ave., New York. 4 story, brick, steel and stone, 43rd St. and 4th Ave., here, to W. L. and G. H. O'Shea, 29 Bway., New York. Archts. est. $200,000.

N. Y., Buffalo—Store, etc.—E. H. Close Realty Co., 309 Main St., Toledo, O., 6 story, 18 x 100 x 150 ft. store, and 1 story, 38 x 81 x 150 ft. garage, brick and tile, Main St. here, to Metzer Constr. Co., 676 Genessee St. Archts. est. $112,500-$150,000. Noted Aug. 23.

N. Y., Jamaica—Bank—Corn Exchange Bank, William St., New York, 40 x 100 ft., brick, steel and stone, Archer St., here, to W. L. Crow Constr. Co., 103 Park Ave., New York. Archts. est. $200,000.

N. Y., New York—Apartment—K. Bagdanoff, c/o C. Kreymborg, archt., 2534 Marion Ave., will build 5 story, 100 x 115 ft., brick, steel and stone, Elliott Pl., by day labor. Archts. est. $200,000.

N. Y., New York — Apartment — Octo Building Corp., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., will build 12 story, brick, steel and stone, West 80th St., by day labor. Archts. est. $1,500,000.

N. Y., New York—Apartment—M. Perlbinder, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, steel and stone, West Farms Rd., by day labor. Archts. est. $250,000.

N. Y., New York—Apartment—Six Thirty West 170th St. Corp., c/o G. E. Miller, archt. and engr., 1482 Bway., will build 6 story, 100 x 150 ft., brick, steel and stone, West 170th St., by day labor.

N. Y., Wende (Millgrove P. O.)—Home and Infirmary—Supervs. Erie Co., City Hall, Buffalo, general contract 2 and 3 story, brick, stone and steel, here, to H. Shenk, Erie, Pa., $1,079,000. Noted Sept 13.

Pa., Ambridge—High School—Bd. Educ., 3 story and basement, 100 x 360 ft., Duss Ave., to R. B. McDanil Co., New Brighton, plumbing to Moss & Blakeley, 223 Beltzhoover Ave., Pittsburgh, steel to Amer. Bridge Co., Ambridge, total est. $385,000.

Pa., Phila.—Nurses Home—H. W. Coster, archt., St. Girard Bldg., 4 story and basement, 36 x 92 ft. rein.-con., brick and steel, plain foundation, Broad and Wolf Sts., to Cramp Co., 11th and Market Sts., for Methodist Episcopal Hospital, Broad and Wolf Sts., $150,000. Noted Sept. 6.

Pa., Villanova—Dormitory—Cardinal D. J. Dougherty, 1723 Race St., Phila., 3 story and basement, 70 x 208 ft., here, for Villanova College, to R. C. Ballinger Co., 925 Chestnut St., Phila., $230,000.

Miss., Bay St. Louis—Hotel—H. S. Weston, general contract, 2 story and basement, brick and concrete, to C. A. D. Bailey & Co., New Orleans, La., $120,500. Noted Aug. 2.

Ky., Lexington—Chemistry—University of Kentucky plans adding wing to Chemistry Bldg. $150,000. Architect not selected.

O., Akron—Auditorium—City, 2 story auditorium at Central High School, Union St., white brick, to Carmichael Constr. Co., 524 Hamilton Bldg., $186,542.

O., Cleveland—Store—Fries & Schule Co., 1968 West 25th St., 2 story, brick, steel and concrete top addition, to S. W. Emerson Co., Union Bldg. Archts. est. $150,000.

O., Dayton—Dormitory—University of Dayton, 5 story, 40 x 188 ft., rein.-con. and brick, plain foundation, to Danis-Hunt Constr. Co., 907 Schwind Bldg., $350,000. Noted Oct. 13.

O., Mineral Ridge—School—Town, 2 story and basement, white brick and stone, to Hawkins, Downey Mason Constr. Co., Youngstown, $200,000.

Mich., Flint — Administration — Durant Motor Co., 3 story and basement, 48 x 217 ft rein.-con. and steel, to H. G. Christman Co., West Saginaw St., Lansing. Noted Aug. 30.

Ill., Chicago—Apartment—H. Reisen, c/o A. S. Hecht, archt., 155 North Clark St., 3 story and basement, 125 x 225 ft., rein.-con., brick and steel, Fulton St. and Central Park, to Welch Constr. Co., 841 North California Ave. Archts. est. $450,000.

Ill., Chicago—Bank and Office—Madison Square State Bank, 19 North Circle Ave. 3 story, 75 x 175 ft., rein.-con., brick and steel, 4810 West Madison St., to R. C. Wiebold & Co., 1534 West Van Buren St. Archts. est. $200,000.

Ia., Ames—Foundation—Wesley Foundation, Ames, general contract 2 story and basement, 110 x 125 ft., rein.-con., brick tile and stone, to Madsen & Peterson, 648 Builders Exch., Minneapolis, Minn. $104,980.

Ia., Boone—High School—Bd. Educ., general contract, 3 story and basement, 85 x 132 ft., rein.-con., brick and stone, to Lippert Bros., Boone, $126,990. Noted Aug. 9.

Ia., Mediapolis—School—Bd. Educ., general contract 3 story and basement, 66 x 179 ft., with gymnasium annex, rein.-con., brick and stone, to C. W. Getchell, 2310 High St., Des Moines, $89,4[illegible]. Noted Aug. 23.

Minn., Minneapolis—Lodge—St. Anthony Aerie No. 1247, Fraternal Order of Eagles, 3½ story and basement, 76 x 150 ft., rein.-con., brick and tile, Central Ave. and 4th St. S. E., general contract to H. S. Billingsley & Co., 724 Plymouth Bldg. Total $200,000. Noted Sept. 14, 1922.

Minn., Willmar — Cottages — State Bd. Control, St. Paul, two 2 story and basement, 55 x 120 ft., rein.-con., brick and tile, at State Hospital for Insane, here, to J. H. Olson, Willmar, $123,930. Noted Sept. 13.

Mo., St. Louis—Club and Office—Town Club, Century Bldg., 7 story and basement, 46 x 110 ft., rein.-con., tile, brick and steel, Locust St., to Humes-Deal Co., Century Bldg. Archts. est. $350,000.

Mo., Unionville—Court House—Putnam Co. general contract 3 story and basement, 70 x 90 ft., Bedford or Carthage stone, to G. H. Gossman, Arkansas City, Kan., $128,000. Noted July 26.

Tex., Ft. Worth—Y. M. C. A., 914 Monroe St., 4 story and basement, 100 x 145 ft. brick, stone and concrete, 5th and Lamar Sts., to H. B. Friedman, 1st Natl. Bank Bldg., $238,500. Archts. est. $300,000. Noted Sept. 13.

Wash., Olympia — Hospital — Sisters of Charity, 5 story, 175 x 240 ft., steel and concrete, to A. W. Quist & Co., Hoge Bldg., Seattle. Archts. est. $310,000.

Calif., Fullerton—City Hall—City Trustees, Sept. 11, 2 story, concrete and steel, (1) structure complete, (2) in rough, from W. G. Reed, Southwest Bank Bldg., Long Beach, (1) $197,000, (2) $107,000. Noted Sept. 6.

Calif., Long Beach—Store and Office—Pine Avenue Realty Co., 610 Pine Ave., 7 story and basement, rein.-con., 5th Ave. and Pine St., to J. V. McNeil Co., H. W. Hellman Bldg., Los Angeles, $283,900.

Calif., Los Angeles—Bank and Office—Natl. City Bank, 13 story and basement, brick and steel, 8th St. between Main and Spring Sts., to Edwards, Wildey & Dickson, 515 Black Bldg., Los Angeles. $800,000. Foundation already constructed.

Calif., Los Angeles—Hospital—Industrial Clinic & Hospital Assn., 2 story and basement, rein.-con. and brick, West Jefferson St., to E. B. Newcomb, Pantages Bldg., $150,000.

Calif., Los Angeles — Loft and Store—Wayside Press, 311 East 4th St., 4 story and basement, 140 x 175 ft. rein.-con., San Pedro and 9th Sts., to Los Angeles Building & Constr. Co., Marsh Strong Bldg.

Calif., Los Angeles—Store and Loft—M. G. Cooper Co., 700 South Los Angeles St., 2 and 11 story and basement, rein.-con., 9th and Los Angeles Sts., general contract to McNeil Co., H. W. Hellman Bldg., to exceed $600,000.

Calif., Los Angeles—Store, Office and Bank—Commercial Building Co., 715 Junior Orpheum Bldg., 1 and 13 story and basement, rein.-con. and steel, Hollywood Blvd. and McCadden St., to Simpson Constr. Co., Bank of Italy Bldg., $450,000.

Calif., Los Angeles—Store and Office—Sun Realty Co., c/o Curlett & Beelman, archts., Union Bank Bldg., 12 story and basement, 85 x 160 ft., rein-con., Olive and 9th Sts., to Macdonald & Kahn, Loew State Bldg., to exceed $800,000.

Calif., Oakland—Store and Office—Smith Bros., 472 13th St., 3 story, rein.-con., Bway. near 17th St., to C. W. Heyer, Jr., Mills Bldg., San Francisco, $150,000.

Calif., San Francisco—Apartment—M. E. Bell, 825 Pine St., will build 4 story and basement, rein.-con., Pine St. near Powell St., by day labor. $150,000.

Calif., San Francisco—Store and Club—Elks Club, c/o Meyer & Johnson, archts., 742 Market St., 13 story, steel, etc., Post St. between Powell and Mason Sts., general contract, to R. McLeran Co., Hearst Bldg., about $1,000,000.

Que., Montreal—Office—Messrs. Caron Bros., Bleury St., 10 story, 136 x 207 ft. rein.-con., brick, steel and stone, Bleury St., to O. Archambault, 610 Parc Lafontaine St., $750,000.

Buildings (Continued)

B. C., Vancouver—Apartment-Hotel—Georgia Ltd., 657 Granville St., 7 story and basement, 120 x 125 ft. apartment with 60 x 75 ft. court, rein.-con., brick, stone and terra cotta. Georgia and Hornby Sts., to Smith Bros. & Wilson, 850 Hastings St., W., $425,000.

Federal Government Work

PROPOSED WORK

Ky., Addison—Steel, etc.—U. S. Engineer, P. O. Box 72, Louisville, plans purchasing 1 carload 1 in. round soft steel, shop lengths, and 3,200 lb. c.i. washers, 4 in. diam., for Dam 45, here.

BIDS DESIRED

N. Y., Niagara Falls—Extension—Oct. 3, by Treas. Dept., Wash., D. C., extension to U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

N. Y., Port Chester—Dredging, etc.—Oct. 26, at office U. S. Engineer, Army Bldg., 39 Whitehall St., New York, dredging and rock removal in Harbor, here; adv. E. N.-R. Sept. 27.

Florida—Road—Oct. 18, by A. E. Loder, dist. engr., U. S. Bureau Pub. Rds., Dept. Agriculture, Shepherd Bldg., Montgomery, Ala., constructing 12 mi. Mossyhead-Niceville National Forest Rd., partly within Florida National Forest, Okaloosa Co., here, 10.6 mi. machine grading, 16,600 cu.yd. common excav., 21,235 cu.yd. sand clay, 34,950 ft. timber bridges, etc.

Ill., Rock Island—Discharge Pontoons—Oct 17, at office U. S. Engineer, Rock Island, furnishing 20 steel discharge pontoons; adv. E. N.-R. Sept 27.

Wyoming—Road—Oct. 4, by J. W. Johnson, dist. engr., Dept. Agriculture, 301 Custom House, Denver, Colo., clearing, grading and building structures on 3.8 mi. National Forest Rd., Cody-Yellowstone Park, Park Co., 20 and 24 ft.

Calif., Los Angeles—Dredging—Oct. 15, at office U. S. Engineer, 725 Central Bldg., dredging in Harbor, here, 585,000 cu.yd. excav. and 115,000 cu.yd. allowable overdepth.

H. T., Pearl Harbor—Storehouse—Spec. 4859—Nov. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 1 story, 120 x 480 ft., steel and concrete storehouse, at Naval Operating Base, here. Noted Sept. 20.

P. R., Quebradillas—Dam—Nov. 30, by Dept. of Interior, at office of Isabella Irrigation Serv., constructing Guajataca Dam and appurtenant structures, near here. R. A. Gonzalez, ch. engr., Isabella Irrigation Serv.; adv. E. N.-R. Sept 27.

BIDS RECEIVED

Mass., Rutland—Quarters—F. T. Hines, dir. U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing, complete, nurses quarters, mess hall and utilities building at U. S. Veterans Hospital, 89, here, (1) work complete, from Imbach-Wozny, 700 Knickerbocker Bldg., Baltimore, Md., (1) $122,000 (2) $55,000 (3) $49,000 (4) add $300 (5) deduct $150 (6) add $1,800 (7) add $850 (8) mastic floor $5, excavation $1.50, concrete Class A $14, Class B $15, rein. steel $100, structural steel $200, brick $70, 8 in. wall tile $0.45, 4 in. $0.25. (Begin 10 days complete in 8 months.) Noted Aug. 23.

D. C., Wash.—Laboratory—Dept. of Interior, for pathological laboratory at Freedmens Hospital, from Ennis & Hare, 1933 East 31st St., Baltimore, Md., $59,330 alternate (1) $900 alternate (2) $185 (8 months). Noted Aug. 30.

La., New Orleans—Earthwork—U. S. Engineer, 200,000 cu.yd. earthwork for levees in Pontchartrain Dist., from Grasser Contg. Co., Canal Commercial Bldg., $0.30.

South Dakota—Road—U. S. Bureau Pub. Rds., Custom House, Denver, Colo., grading 3.766 mi. Custer Pringle National Forest Rd., Custer Co., here, from M. J. Kenney, 512 Bank Blk., Denver, Colo., $30,096 (Government furnishing explosives), $32,447 (contractor furnishing explosives). Noted Sept. 13.

Ore., Klamath Falls—Dam—U. S. Recl. Bureau, Klamath Falls, for Gerber Dam, 10,000 cu.yd. wet excav., 1,300 cu.yd. fill, 8,500 cu.yd. concrete and 1,400 lin.ft. grouping, from W. D. Miller, Klamath Falls, $150,480. Noted Aug. 9.

CONTRACTS AWARDED

Mass., Boston—Flooring—Treas. Dept., Wash., D. C., flooring, mechanical equipment, renovation and remodeling in U. S. Post Office and Sub-Treasury Bldg., here, to F. J. Low, 14 Everett Ave., Chelsea, $118,000 (6 months). Noted Sept. 20.

Ky., Louisville—Piling—U. S. Engineer, P. O. Box 72, furnishing five hundred 25 ft. and one thousand 30 ft. round wood oak piles for Dam 46 Ohio River, to L. W. Johnson, Calhoun, $7,175.

Tex., Ft. Worth—Helium Plant—U. S. Bureau of Mines, c/o U. S. Hellum Plant, Decatur Rd., here, steel factory buildings, to Taylor Building Co., B. Burnett Bldg., $160,000; miscellaneous machinery, incl. pumps, power plant improvements, etc., in above, to Macbeth Eng. Co., Magnolia Bldg., Dallas. Total estimated cost $200,000. Noted June 27.

Washington—Dredging—U. S. Engineer, Seattle, removing 8,035 cu.yd. ledge rock and 2,400 cu.yd. other material from Willapa Harbor, here, to Puget Sound Bridge and Dredging Co., Central Bldg., Seattle, $9.30 and $1.50 respectively.

Miscellaneous

PROPOSED WORK

Coal Tipple—Monongahela, Pa.—Natl. Mining Co., Washington, plans large coal tipple with connecting runway, at Ginger Hill Mine, near here. $500,000. Engineer not announced.

Electric Tower etc.—Lynchburg, Va.—Chesapeake & Ohio R.R., 825 East Main St., Richmond, plans 2 story electric tower and interlocking pneumatic switch. $42,000.

Dock Terminal, etc.—Tampa, Fla.—U. S. Export Chemical Corp., Krause Bldg., having plans prepared dock terminal elevators and plant for manufacture of double superphosphate. $400,000. Address P. S. Gilchrist, Charlotte, N. C., engr. and archt.

Winter Resort—Pecan Island, La.—E. A. McIlHenny, 355 Drexel Bldg., Phila., is president of company which is promoting construction on $2,000,000 winter resort and club house, here, concrete, tile and stucco.

Transmission Lines—Indiana—Indiana Electric Corp., Indianapolis, plans 66,000 volt transmission line from new power station on Wabash River to Indianapolis, about 90 mi., $250,000; also 33,000 volt high tension transmission line from new plant in Vigo Co. on Wabash River to Sullivan, about 24 mi., $95,000. J. H. Brewer, pres.

Subway—Cotton Hill (Glenarm P. O.), **Ill.**—Illinois Central R.R., 135 East 11th Pl., Chicago, plans subway for tracks, here. $28,000. F. L. Thompson, ch. engr.

Gas Holder—Madison, Wis.—Madison Gas & Electric Co., c/o J. St. John, pres., 100 North Fairchild St., plans 60 x 95 ft., gas storage holder, brick, rein.-con. and steel, plain foundation, East Main St. $50,000. Engineer and architect not selected.

Stadium—Minneapolis, Minn.—University of Minnesota having plans prepared by F. M. Mann, 1009 Metropolitan Bank Bldg., stadium, rein.-con., University Ave. S.E. between Harvard and Oak Sts. May include 3 or 4 story auditorium. $1,500,000. Noted Oct. 26, under "Buildings."

Levees—Walnut Ridge, Ark.—See "Excavation, Drainage, Irrigation."

Fill, etc.—Portland, Ore.—Port of Portland, plans filling Guild Lake, and 1,200 acres adjoining; straightening and deepening Willamette River and Harbor, involving 3,032,760 cu.yd. dredging, $170,000. Plans being made for dredge equipped with four 750 hp. Diesel engines and 30 in. suction and discharge pipe. J. H. Polhemus, Spalding Bldg., genl. mgr. G. B. Hegardt, Stark St. Dock, engr.

Breakwater—Long Beach, Calif.—Plans 3,000 ft. breakwater in vicinity of Pine Ave. pier, 350,000 tons rock. C. H. Windham, city mgr.

Shovel—San Luis Obispo, Calif.—San Luis Obispo Co. plans to purchase gasoline shovel for Rd. Dist. 1.

BIDS DESIRED

Dragline—Memphis, Tenn.—Clark-Hunt Cont. Co., 608 McCall Bldg., taking bids one 3 T Monighan dragline equipped with Diesel oil engine, immediate delivery.

Ornamental Lighting System—Bexley (Columbus P. O.), **O.**—Oct. 9, by S. W. Roderick, village clk., installing ornamental street lighting system, lights will be placed 100 ft. apart on main thoroughfares and 200 ft. apart on other streets, standards will be 12½ ft. sheet metal. $80,000. Jennings-Lawrence Co., 511 Hartman Bldg., Columbus, engrs.

Steam Shovel—Chicago, Ill.—Gibbons & Griffin, 118 North La Salle St., in market for steam shovel, 2-3 yd. dipper.

Tunnel Work—Fond du Lac, Wis.—See "Waterworks."

Garbage Truck, etc.—Kenosha, Wis.—B. W. Boleriack, city purch. agt., taking bids 2 or 3 ton garbage truck. May also buy street sweeping machine.

Heating Plant—Sheboygan, Wis.—Ed. Pub. Wks., taking bids central heating plant for almshouse, incl. boiler, piping and radiation. R. F. John, city engr. Noted Aug. 2.

Locomotive and Car Bolsters, etc.—St. Louis, Mo.—Oct. 4, by G. E. Scott, purch. agt. Missouri-Kansas-Texas R.R., 1520 Ry. Exch. Bldg., 87 tons locomotive and car bolsters, and side frames in such quantities from time to time during last quarter of 1923.

Steel Castings—St. Louis, Mo.—Oct. 3, by G. E. Scott, purch. agt. Missouri-Kansas-Texas R.R., 1520 Ry. Exch. Bldg., 150 tons miscellaneous cast steel castings, excluding couplers, bolsters and side frames. To be furnished in such quantities from time to time during period Oct. 1 to Dec. 31, 1923, as railroad may require.

Mud Shell—Houston, Tex.—Oct. 4, by H. L. Washburn, aud. Harris Co., Court House, 17,000-23,000 cu.yd. mud shell for ballast in classification yards, turning basin, Harris Co. Navigation Dist.

Gravel—Kountze, Tex.—Oct. 15, Tyler Co. 25,000 cu.yd. gravel road. $25,000. T. F. Teel, co. judge.

Transmission Line—St. Paul, Kan.—Oct. 4, by C. E. McAtee, city clk., 13,200 volt transmission line from here to Parsons. E. H. Bass, City Hall, engr.

Tunnel—Hood River, Ore.—Oct 1, by Directors of Farmers Irrigation Co., 210 ft. tunnel through solid rock, 430 cu.yd. excav., etc. C. M. Hurlburt, Hood River, engr.

Truck Equipment—Madera, Calif.—Oct. 2, by Madera Co., two 4 yd. square corner, two 2½ yd. all purpose, combination steel pump body with removable sides, equipped with manual tail gate control, double action tail gate, spreader chains, steel underbody suitable for mounting bodies to trucks. L. W. Cooper, co. clk.

BIDS RECEIVED

Asphaltic Cement, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, Sept. 20, furnishing and delivering 300,000 gal. asphaltic cement from Warner Quinlan Co., 79 Wall St., New York, $15,600; 6,000 cu.yd. binder stone from Calvin Tompkins Co., 30 Church St., New York, $13,860; 50,000 asphalt paving blocks from Hastings Paving Co., 25 Broad St., New York, $4,780; 50,000 grade 1 granite paving blocks from Rockport Granite Co., 13 Park Row, New York, $6,900; 50,000 wood paving blocks from Amer. Creosoting Co., 17 Battery Pl., New York, $2,950; 60,400 ft lumber from East River Mill & Lumber Co., 92nd St. and East River, New York, $3,962. Noted Sept. 13.

Asphaltic Cement, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., Sept. 19, furnishing 400 ton asphaltic cement, from Standard Oil Co., 26 Bway., $7,700; 1,000 cu.yd. broken trap rock from Ames Building Material Co., 3437 Kingsbridge Rd., $8,463. Noted Sept. 13.

Heating and Ventilating Apparatus, etc.—New York, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Sept. 19, heating, ventilating and temperature regulating apparatus in Annex to P. S. 72, East 104th and East 105th Sts. and Lexington Ave., here, from Almirall & Co., Inc., 1 Dominick St., $73,593. Noted Sept. 13.

Lock, Gates, etc.—Illinois—Director Dept. Pub. Wks. and Buildings, Div. Waterways, Springfield, constructing Lockport Lock, also water gates and valves of Lockport and Marseilles Locks, from Green & Sons Co., 6 North Michigan Blvd., Chicago, $1,870,757. Noted Aug. 23.

Grade Separation—Milwaukee, Wis.—Grade separation of Leeds Pl. Forest Home and Pabst Aves., 9,200 cu.yd. fill, 5,300 cu.yd. excav., 1,237 cu.yd. concrete in retaining wall and bridge abutment, etc., from H. Danischefsky, 1484 Humboldt Ave., $47,698. Noted Sept. 13.

Materials—St. Paul, Minn.—H. W. Austin, city purch. agt., Sept. 11, furnishing and delivering structural reinforcing for repairing Wabasha St. Bridge over Mississippi River, from St. Paul Fdry. Co., Como Ave. and McKubin St., $4,587; materials for reflooring Wabasha St. Bridge, incl. 1,320 sq. yd. 3½ in. creosoted wood block, from Minnesota Road Equipment Co., 4536 Dupont Ave. S., Minneapolis, $2.70 per sq.yd.; eight hundred and eighty 12 ft. lengths 6 in. Class B c.i. pipe, from Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala.,

Miscellaneous (Continued)

$60.16 per ton; three hundred and eighty 12 ft. lengths 16 in. Class B c.i. pipe, from Glamorgan Pipe Fdry. Co., The Rookery, Chicago, $58.10 per ton. Noted Sept. 6.

Copper and Steel Standards, etc.—Santa Ana, Calif.—Installing 86 double light copper and steel standards, from Osborn Electric Co., 1311½ South Grand St., San Pedro, $54,641. Noted Sept. 6.

Levee—Yuba City, Calif.—Recl. Dist. 1660, California Fruit Bldg., Sacramento, levee construction as follows: From Olympian Dredging Co., 149 1st St., San Francisco (all cash payments), (a) 323,000 cu.yd. clamshell and team work excav. $0.0993 per cu.yd. (b) 42,000 cu.yd. suction dredging $0.50 per cu.yd., alternate for rental of equipment, suction dredges $25 per hr., 6½ yd. bucket dredge $12.50 per hr., 6 yd. bucket dredge $11.50 per hr., 5½ yd. bucket dredge $10.50 per hr., Argyle Dredging Co., Kohl Bldg., San Francisco, portion of clamshell dredger work $0.11 per cu.yd., alternate, 4½ yd. bucket dredger $9.85 per hr., team and scraper work on levee, 43,000 cu.yd. $0.48 per cu.yd. Conduit work incl. (a) main conduit and 4 gates, (b) auxiliary conduit similar to main conduit, (c) rock sub-foundation (d) concrete piles, from Jenkins & Elton, 36th and Y Sts., Sacramento, Prop. 1 (cash payments) (a) $17,700 (b) $9,720 (c) $8 per cu.yd. (d) $5 per lin.ft.; Olympian Dredging Co., 149 1st St., San Francisco, Prop. 1, (a) $18,404 (b) $11,484 (c) $6.50 per cu.yd. (d) $3.50. Noted June 14.

CONTRACTS AWARDED

Fire Alarm System—New York—T. J. Drennan, fire comr., Municipal Bldg., New York, extension to fire alarm system, Boro of Queens, to J. Sudgen & Co., 100 5th Ave., New York, $41,622. Noted Sept. 20.

Lumber and Piles—New York, N. Y.—E. W. Buckley, comr. Dept. Purchase, Municipal Bldg., lumber and piles to Dept. Docks, to Robinson Lumber Co., New York, $113,-622; Cooney, Eckstein & Co., 302 Bway., $9,837; J. A. Maloney & Co., 1170 Bway., $4,464. Noted Aug. 30.

Grain Elevator—Oswego, N. Y.—Bd. Pub. Wks., Albany, constructing and equipping grain elevator, 5 story, 69 x 213 ft., rein.-con. and steel, here, to James Stewart Co., Inc., 30 Church St., New York, $1,119,959. Noted Sept. 20.

Heating and Ventilating Equipment—Louisville, Ky.—Kosairs Assn., furnishing and installing heating and ventilating equipment in temple, Bway., to A. J. Anderson, 338 West Main St., $51,000. Noted Sept. 13.

Structural Steel—Louisville, Ky.—Louisville & Nashville R.R., 10th St. and Bway., 450 tons structural steel for bridges, to American Bridge Co., Ambridge, Pa., engrs. est. $25,000; 400 tons structural steel for bridge work, to Mt. Vernon Bridge Co., Mt. Vernon, Ind., engrs. est. $20,000.

Grade Separation—Lincoln Park (Wyandotte P. O.), Mich.—Wayne Co. Rd. Comn., 1103 Real Estate Trust Bldg., Detroit, grade separation on St. Cosme Rd. and Pennsylvania and Detroit Ry., to Closser Bros., 3917 Lawton Ave., $39,182. Noted Sept. 20.

Steel—Chicago, Ill.—Illinois Central R.R., 135 East 11th Pl., furnishing 400 tons structural steel for track elevation work, to Truscon Steel Co., 22 West Monroe St. Engrs. est. $24,000.

Sub-Basements and Caissons—Chicago, Ill.—Store—The Fair Co., 140 South State St., 2 new sub-basements under present 12 story structure and caissons for 4 additional stories, 190 x 351 ft. rein.-con., brick and steel, to J. Griffiths & Sons Co., 112 West Adams St. Ultimate cost $2,000,000. Noted Apr. 26 under "Buildings."

Steam Heating Plant—Madison, Wis.—Hotel Wisconsin Realty Co., c/o W. Schroeder, 86 Michigan St., Milwaukee, steam heating plant in new hotel, to P. E. Mueller Co., 323 East Wilson St., $90,000. Noted July 5, under "Buildings."

Tunnel—Colorado—Moffat Tunnel Dist., Club Bldg., Denver, Moffat Tunnel under James Peak, Gilpin and Grand Counties, to Hitchcock & Tinkler, Club Bldg., Denver. See "News of the Week" section of E. N.-R., Sept. 27, for detail. Noted Sept. 20.

Loader, etc.—San Jose, Calif.—Santa Clara Co., furnishing 1 Spearwell Mogul Loader, creeper track, to Spears-Wells Mchy. Co., 9th and Cedar Sts., Oakland, $3,800. Noted Aug. 23.

Arena—Niagara Falls, Ont.—Niagara Falls Arena Ltd., ice arena Victoria Ave., to Gardner Constr. Co., Welland, $52,000.

OFFICIAL PROPOSALS

Bids: Oct. 11

State Highway Work

Richmond, Va., Sept. 18, 1923.

Sealed bids will be received at the office of the State Highway Dept., 413 N. 10th St., Richmond, Va., until 10:30 A.M., October 11th, 1923, for the construction of:

1. Proj. S-143—Rt. 10—Three miles east of Bedford to Bedford, Bedford Co. 3.0 mi. 18' Bit. Mac. Approx. .25 ac. clearing, 41,900 cu. yds. Exc., 708 lin. ft. Pipe, 96 cu. yds. "A" Conc. 103 cu. yds. "B" Conc. 9,215 lbs. reinf. steel, 44 lin. ft. Gd. Rail. The right is reserved to limit the project to the two miles immediately East of Bedford.

2. Proj. S-145A—Rt. 35—Southampton Co. Line-Homesville, Sussex Co. 3.6 mi. 16'-8-6-8 conc roadway approx. 6 ac. clearing, 12,605 cu. yds. exc., 476 lin. ft. Pipe, 20 cu. yds. "B" conc. State will furnish cement.

3. Proj. F-183—Rt. 31—Cranes Corner-Falmouth, Stafford Co., 2.9 mi. 18'-8-6-8 conc. Approx. 8 ac. clearing, 44,000 cu. yds. Exc., 500 cu. yds. Borrow, 528 lin. ft. Pipe, 470 cu. yds. "A" conc., 35 cu. yds. "B" conc., 18,934 lbs. reinf. steel, 2,800 lin. ft. Wood. Gd. Rail. State will furnish cement.

4. Proj. S-310B—Rt. 12—Lawrenceville towards Edgerton, Brunswick Co., 2.0 mi. 18'-8-6-8 conc. Approx. 0.6 ac. clearing, 6,047 cu. yds. Exc., 206 lin. ft. Pipe, 8 cu. yds. "B" Conc., 1,000 lin. ft. Wood Gd. Rail. State will furnish cement. The right is reserved to cut off the work at the expenditure of $100,000.00.

5. Proj. F-225B—Rt. 31—Approaches to Falmouth Bridge, Spotsylvania Co., 0.7 mi. 18'-8-6-8 conc. Approx. 3,705 cu. yds. Exc., 210 lin. ft. Pipe, 35 cu. yds. "A" conc., 54 cu. yds. "B" conc., 3,243 lbs. reinf. steel, 130 lin. ft. Gd. Rail. Bids to be based on understanding that this work will be let in conjunction with Proj. F-183. State will furnish cement.

6. Proj. S-320 ABC—Rt. 10—Three reinforced concrete clear beam span bridges over Broad Creek, Lynnhaven River, and Thalia Arm in Norfolk and Princess Anne Cos., Approx. 724 cu. yds. A Conc., 639 cu. yds. "B" conc., 83,000 lbs. reinf. steel, 19,360 lin. ft. untreated piling.

7. Proj. S-327—Rt. 11—Moorefield-Hamlin-Russell Co., 2.0 miles 16' Bit. Mac. Approx. 5.6 Ac. Clearing, 46,000 cu. yds. Exc., 4,000 cu. yds. Borrow, 736 lin. ft. Pipe, 150 cu. yds. "A" conc., 114 cu. yds. "B" conc., 4,571 lbs. reinf. steel 5,192 lin. ft. Wood Gd. Rail, 72 cu. yds. Rubble Masonry. The right is reserved to cut off the work at the expenditure of $40,000.00

Proposal guaranties will be $500.00 for bids less than $100,000.00 and $1,000 for bids amounting to or more than $100,000.00.

Plans and specifications are on file at the Office of the State Highway Dept. and at the office of the following Dist. Engrs. Proj. S-143-Salem. Proj. S-145 A and S-320 ABC Suffolk. Proj. F-183 and F-225B Fredericksburg. Proj. S-310 Richmond. Proj. S-327 Bristol.

Additional plans for bidders for the above project can be obtained upon application to the State Highway Dept. upon receipt of $5.00 payable to H. G. Shirley, of which $2.50 will be refunded if plans are returned within two weeks after bids are opened. Bridge plans can be obtained from W. F. Hobart, 805½ E. Franklin St., Richmond, to cost as follows: Proj. S-320ABC-$1.62.

Engrs. will be at the following places to show prospective bidders over the projects as follows:

Proj. S-143 Hotel Bedford 10:30 A.M., Friday, October 5th. Proj. S-145A Hotel at Sebrell 11 A.M., Wed., Oct. 3rd; roj. F-183 and F-225B, Dist. Engrs. Office, Fredericksburg, 10:30 A.M., Wed., Sept. 26th; Proj. S-330 Lawrenceville Court Couse, 10:30 A.M., Monday, Oct. 1st; Proj. S-320 Lorraine Hotel, 10:30 A.M., Norfolk, Fri., Sept. 28th; Proj. S-327 Blue Sulphur Hotel, St Paul, Va., 10 A.M., Monday, Oct. 8th.

Proposals will not be available until September 25th.

The State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY,
Chairman.

C. S. MULLEN,
Acting Commissioner.

Bids: Oct. 23.

Filter Equipment

Buffalo, N. Y.

Sealed proposals for furnishing and installing the necessary meters, rate controllers, gages, chemical feed devices, operating tables and other filter equipment and appurtenances in connection with the Filter Plant for the City of Buffalo, endorsed "Proposal for Filter Equipment," will be received by the Commissioner of Public Works at his office in the Municipal Building, Buffalo, N. Y., until eleven A.M. on Tuesday, the 23rd day of October, 1923, and at that time will be publicly opened and read.

Copies of the plans and specifications may be seen at the office of the Engineer, Filtration Division, Bureau of Water, Buffalo, N. Y., and copies of the plans, specifications, contract and form of proposal may be obtained at said office, upon the deposit of Twenty-five Dollars ($25.00) for each set furnished, which sum will be refunded if the said plans and specifications are returned in good condition within thirty (30) days after bids have been received and acted upon by the City of Buffalo. Plans and specifications may also be seen at the office of Fuller & McClintock, Consulting Engineers, 170 Broadway, New York City.

Each bid must be accompanied by a certified check upon an acceptable National Bank or Trust Company, made payable to the Commissioner of Public Works of the City of Buffalo, in the amount of Ten Thousand Dollars ($10,000.00).

A bond in the sum of one-third the total amount of the proposal with a satisfactory surety company as surety will be required, conditioned upon the faithful performance of the work, said bond to remain in force for one year after the final completion and acceptance of the work.

GEORGE C. ANDREWS,
Engineer, Filtration Division.
September 10, 1923.

Bids: Oct. 2.

Cast Iron Pipe

Bayonne, N. J.

Sealed proposals will be received by the Board of Commissioners of the City of Bayonne, New Jersey, at the meeting place of said Board, in the City Hall, Avenue E and 30th Street, on Tuesday, October 2, 1923, at 8.30 o'clock P.M., for furnishing and delivering to the Water Department, f.o.b. cars Pennsylvania Railroad, Passaic Avenue, Kearnry Meadows, Kearny, N. J., thirty (30) lengths of thirty (30) in. Class B, standard cast iron B. & S. pipe for Water Supply purposes, and the following fittings for the same:

Four (4) thirty (30) inch 90 degree Ells.
Four (4) thirty (30) inch 45 degree Ells.

All bids must be submitted in sealed envelopes, plainly endorsed, "Proposal for Cast Iron Pipe" and the name of the bidder. A certified check for 10% of the amount bid must accompany each proposal.

The Board reserves the right to reject any and all proposals.

By order of the Board of Commissioners of the City of Bayonne.

Dated, Sept. 20, 1923.

WM. P. LEE,
City Clerk.

Bids: March 18, 1924.

18-Mile Railway Construction Tenders

DOMINION OF NEW ZEALAND

Wellington, New Zealand.

Tenders close with the Public Works Tenders Board, Wellington, New Zealand, at noon on 18th March, 1924, for construction of 18 miles of railway including bridges, station buildings, earthworks, approach road metalling, etc. Plans and specification may be inspected at the New York office of Engineering-News Record.